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Dollar Summary of Federal Supply Classification and Service
Category by Company. PT-1 (AA11-AZ16)

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AA11 (CONTINUED)					
AA11	CTR FOR FIELD & APPLIED RESEAR	EGYPT	NAVY	RDTE/Agr-Insect & Disease Cntl-Basic Resea	\$ 70
	MENKPEYA LIVER INSTITUTE	EGYPT	NAVY	RDTE/Agr-Insect & Disease Cntl-Basic Resea	70
	R&D TOTAL				140
AB13	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Crime Prevention & Control-Advanced D	400
AB15	CONRAC ELEKTRON GMBH	PANAMA	ARMY	RDTE/Crime Prevention & Control-Op Systems	27
AB91	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Community Svcs & Develop-Basic	1,220
AB92	TEACHING STRATEGIES INC	D.C.	ARMY	RDTE/Other Community Svcs & Develop-Explor	100
AB93	NORDAM	Oklahoma	ARMY	RDTE/Other Community Svcs & Develop-Advanc	1,705
AB96	NATIONAL CNCL YMCA OF U S A	Hawaii	NAVY	RDTE/Other Community Svcs & Develop-Mgmt &	305
AC11	ALLIED SIGNAL INC	New Jersey	NAVY	RDTE/Aircraft-Basic Research	165
	ANAMET LABORATORIES INC	California	NAVY USAF	RDTE/Aircraft-Basic Research RDTE/Aircraft-Basic Research	81 49
		STATE TOTAL			130
	BELL BOEING JV	Texas	NAVY	RDTE/Aircraft-Basic Research	198,500-
	CFD RESEARCH CORPORATION	Alabama	NAVY	RDTE/Aircraft-Basic Research	50
	ELECTROSPACE SYSTEMS INC	Florida	USAF	RDTE/Aircraft-Basic Research	968
	ESSEX CORPORATION	Maryland	NAVY	RDTE/Aircraft-Basic Research	47
	FAILURE ANALYSIS ASSOCIATES	California	NAVY	RDTE/Aircraft-Basic Research	496
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Aircraft-Basic Research	50
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Aircraft-Basic Research	378
	GENERAL ELECTRIC COMPANY	Ohio	NAVY	RDTE/Aircraft-Basic Research	50
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Aircraft-Basic Research	240
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Aircraft-Basic Research	80
	METRATEK INC	Virginia	NAVY	RDTE/Aircraft-Basic Research	50
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Aircraft-Basic Research	60

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC11	(CONTINUED)				
	MICHIGAN TECHNICAL UNIVERSITY	Michigan	NAVY	RDTE/Aircraft-Basic Research	69
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Aircraft-Basic Research	149
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Aircraft-Basic Research	300
	PDA ENGINEERING	California	NAVY	RDTE/Aircraft-Basic Research	78
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Basic Research	127
	SCIENTIFIC MGT ASSOCIATES	Virginia	NAVY	RDTE/Aircraft-Basic Research	27
	SIPIN ANATOLE J CO INC	New York	ARMY	RDTE/Aircraft-Basic Research	65
	STRESS PHOTONICS INC	Wisconsin	NAVY	RDTE/Aircraft-Basic Research	48
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Basic Research	190
	R&D TOTAL				194,683-
AC12	A A I CORPORATION	Maryland	ARMY	RDTE/Aircraft-Exploratory Development	3,743
	AEROMETRICS INC	California	NAVY	RDTE/Aircraft-Exploratory Development	35
	AIRCRAFT POROUS MEDIA INC	Florida	ARMY	RDTE/Aircraft-Exploratory Development	246
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Aircraft-Exploratory Development	45
	AVCO CORPORATION	Conn	NAVY	RDTE/Aircraft-Exploratory Development	1,454
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Aircraft-Exploratory Development	129
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Aircraft-Exploratory Development	200
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Exploratory Development	123
	BLAZETECH CORPORATION	Mass	NAVY	RDTE/Aircraft-Exploratory Development	50
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Aircraft-Exploratory Development	232
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Exploratory Development	44
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Aircraft-Exploratory Development	27-
	BRISTOW HELICOPTER LIMITED	UNITED KING	ARMY	RDTE/Aircraft-Exploratory Development	150
	BRITISH INTL HELICOPTER LIMITE	UNITED KING	ARMY	RDTE/Aircraft-Exploratory Development	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC12 (CONTINUED)					
	BURNETTE ENGINEERING	Ohio	USAF	RDTE/Aircraft-Exploratory Development	91
	CONRAD INDUSTRIES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	50
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Aircraft-Exploratory Development	341
	CRITICAL SOFTWARE SYSTEMS	California	NAVY	RDTE/Aircraft-Exploratory Development	70
	DCS CORPORATION	Virginia	NAVY	RDTE/Aircraft-Exploratory Development	1,356
	DECILOG INC	New York	ARMY	RDTE/Aircraft-Exploratory Development	60
	DOW CORNING CORPORATION	Michigan	USAF	RDTE/Aircraft-Exploratory Development	880
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Aircraft-Exploratory Development	300
	ENGINEERED FABRICS CORP	Georgia	ARMY	RDTE/Aircraft-Exploratory Development	80
	FOSTER MILLER INC	Mass	NAVY	RDTE/Aircraft-Exploratory Development	69
	GENERAL ELECTRIC COMPANY	Mass	ARMY NAVY	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	79 3,394
		STATE TOTAL			3,473
		Ohio	ARMY NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	342 1,724 80-
		STATE TOTAL			1,986
	CONTRACTOR TOTAL				5,459
	H R TEXTRON INC	California	NAVY	RDTE/Aircraft-Exploratory Development	723
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Exploratory Development	400
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Aircraft-Exploratory Development	229
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Exploratory Development	667
	LOCKHEED TECHNICAL SERVICES CO	California	NAVY	RDTE/Aircraft-Exploratory Development	276
	LOUISIANA TECH UNIVERSITY	Louisiana	NAVY	RDTE/Aircraft-Exploratory Development	41
	MARMON MOTOR COMPANY	Texas	ARMY	RDTE/Aircraft-Exploratory Development	2,056

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC12 (CONTINUED)					
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Exploratory Development	\$ 971
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Aircraft-Exploratory Development	407
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	198 441
		STATE TOTAL			639
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Aircraft-Exploratory Development	50
	NORTHROP CORPORATION	California	NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	288 297
		STATE TOTAL			585
	REXNORD INC	Wisconsin	NAVY	RDTE/Aircraft-Exploratory Development	29
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Exploratory Development	51
	SCIDMORE & SHEAN	New York	ARMY	RDTE/Aircraft-Exploratory Development	87
	SECA INC	Alabama	NAVY	RDTE/Aircraft-Exploratory Development	49
	SRI INTERNATIONAL	California	NAVY	RDTE/Aircraft-Exploratory Development	300
	UNITED TECHNOLOGIES CORP	Conn	ARMY NAVY	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	42 1,700
		STATE TOTAL			1,742
		Florida	ARMY NAVY USAF	RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development RDTE/Aircraft-Exploratory Development	66 29 39
		STATE TOTAL			134
	CONTRACTOR TOTAL				1,876
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Exploratory Development	1,302
	UNIVERSITY OF NEBRASKA	Nebraska	NAVY	RDTE/Aircraft-Exploratory Development	95
	VECTOR RESEARCH INC	Michigan	ARMY	RDTE/Aircraft-Exploratory Development	58
	WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Aircraft-Exploratory Development	50

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC13 (CONTINUED)					
	FAAC INCORPORATED	Michigan	USAF	RDTE/Aircraft-Advanced Development	38
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	42
		Texas	USAF	RDTE/Aircraft-Advanced Development	39,558
	CONTRACTOR TOTAL				39,600
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Aircraft-Advanced Development	2,236
			NAVY	RDTE/Aircraft-Advanced Development	477
			USAF	RDTE/Aircraft-Advanced Development	1,020
	STATE TOTAL				3,733
		New York	USAF	RDTE/Aircraft-Advanced Development	78-
		Ohio	NAVY	RDTE/Aircraft-Advanced Development	799
			USAF	RDTE/Aircraft-Advanced Development	153,274
	STATE TOTAL				154,073
	CONTRACTOR TOTAL				157,728
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Advanced Development	385
			NAVY	RDTE/Aircraft-Advanced Development	2,278
			USAF	RDTE/Aircraft-Advanced Development	2,503
	STATE TOTAL				5,166
	GRUMMAN AEROSPACE CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	1,163
	HONEYWELL INC	Arizona	USAF	RDTE/Aircraft-Advanced Development	274
		Minnesota	NAVY	RDTE/Aircraft-Advanced Development	246
			USAF	RDTE/Aircraft-Advanced Development	1,728
	STATE TOTAL				1,974
	CONTRACTOR TOTAL				2,248
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Advanced Development	57
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Advanced Development	150
	LOCKHEED CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development	382,195
		Georgia	USAF	RDTE/Aircraft-Advanced Development	13,897

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC13 (CONTINUED)

CONTRACTOR TOTAL					\$	396,082
LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Aircraft-Advanced Development			612
LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Advanced Development			177
MCDONNELL DGLS BELL HEL TEX JV	Arizona	ARMY	RDTE/Aircraft-Advanced Development			103,568
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Aircraft-Advanced Development			1,089
		USAF	RDTE/Aircraft-Advanced Development			51,675
STATE TOTAL						52,764
MERCURY LPE COMPANY INC	Penn	USAF	RDTE/Aircraft-Advanced Development			182
NORTHROP CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development			381,035
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Advanced Development			72,216
	Oklahoma	USAF	RDTE/Aircraft-Advanced Development			1,465
CONTRACTOR TOTAL						73,681
SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development			2,040
	Virginia	USAF	RDTE/Aircraft-Advanced Development			300
CONTRACTOR TOTAL						2,340
SEMCOR INC	New Jersey	NAVY	RDTE/Aircraft-Advanced Development			3,089
SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Advanced Development			26
TAU CORPORATION	California	USAF	RDTE/Aircraft-Advanced Development			111
TECHNO SCIENCES INC	Maryland	USAF	RDTE/Aircraft-Advanced Development			187
TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Advanced Development			495
TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Aircraft-Advanced Development			1,149
THE ANALYTIC SCIENCE CORP	Ohio	USAF	RDTE/Aircraft-Advanced Development			75
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Aircraft-Advanced Development			30
	Florida	USAF	RDTE/Aircraft-Advanced Development			198,893

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC13 (CONTINUED)				
CONTRACTOR TOTAL				
VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Advanced Development	\$ 198,923
	Virginia	NAVY	RDTE/Aircraft-Advanced Development	2,648
				209
				2,857
VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Advanced Development	572
WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Advanced Development	586
R&D TOTAL				1,543,954
AC14 AEROSTRUCTURES INC				
ALLIED SIGNAL AEROSPACE CO	Virginia	NAVY	RDTE/Aircraft-Engineering Development	63
	Arizona	ARMY	RDTE/Aircraft-Engineering Development	685
		NAVY	RDTE/Aircraft-Engineering Development	425
				1,110
STATE TOTAL				
	California	ARMY	RDTE/Aircraft-Engineering Development	1,511
CONTRACTOR TOTAL				
ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Engineering Development	2,621
AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Engineering Development	1,980
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Aircraft-Engineering Development	1,500-
BELL BOEING JV	Penn	NAVY	RDTE/Aircraft-Engineering Development	343
	Texas	NAVY	RDTE/Aircraft-Engineering Development	250
				171,941
CONTRACTOR TOTAL				
BELL HELICOPTER INTERNATIONAL	Texas	NAVY	RDTE/Aircraft-Engineering Development	172,191
BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Engineering Development	205-
		NAVY	RDTE/Aircraft-Engineering Development	2,830-
				2,876
STATE TOTAL				
				46
BOEING COMPANY THE				
	Alabama	USAF	RDTE/Aircraft-Engineering Development	3,131
	Penn	ARMY	RDTE/Aircraft-Engineering Development	635

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC14 (CONTINUED)

CONTRACTOR TOTAL	Washington	USAF	RDTE/Aircraft-Engineering Development	\$
C A E INDUSTRIES LTD	Maryland	NAVY	RDTE/Aircraft-Engineering Development	78,443
CACI INC	Virginia	NAVY	RDTE/Aircraft-Engineering Development	82,209
CAS INC	Alabama	ARMY	RDTE/Aircraft-Engineering Development	15,000
CHADWICK HELMUTH CO INC	California	USAF	RDTE/Aircraft-Engineering Development	232
CHRYSLER TECHNOLOGIES ARBRN SY	Texas	USAF	RDTE/Aircraft-Engineering Development	5,155
CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Aircraft-Engineering Development	116
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Aircraft-Engineering Development	518
COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Aircraft-Engineering Development	50
CORPORATION OF MERCER UNIV	Georgia	USAF	RDTE/Aircraft-Engineering Development	4,519
D M E CORP	Florida	USAF	RDTE/Aircraft-Engineering Development	1,501
DELFIN SYSTEMS	California	NAVY	RDTE/Aircraft-Engineering Development	465
EAGLE PICHER INDUSTRIES INC	Colorado	USAF	RDTE/Aircraft-Engineering Development	395
EATON CORPORATION	New York	USAF	RDTE/Aircraft-Engineering Development	93
ECC INTERNATIONAL CORP	Florida	USAF	RDTE/Aircraft-Engineering Development	289
ELECTRO MAGNETIC APPLICATION	Colorado	USAF	RDTE/Aircraft-Engineering Development	16,300
ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Engineering Development	47,446
ENGINEERING & ECONOMICS RES	Virginia	ARMY	RDTE/Aircraft-Engineering Development	50
ENINETICS CORPORATION	Ohio	USAF	RDTE/Aircraft-Engineering Development	3,337
FAIRCHILD INDUSTRIES INC	Maryland	USAF	RDTE/Aircraft-Engineering Development	3,103
FORD AEROSPACE CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	154
GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Engineering Development	2,365
GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Aircraft-Engineering Development	25,887
				21,109
				424

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC14 (CONTINUED)

	CONTRACTOR TOTAL	Ohio	USAF	RDTE/Aircraft-Engineering Development	\$ 65,179
	GENERAL MOTORS CORPORATION	Indiana	NAVY USAF	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development	65,603 2,470 999
	STATE TOTAL				3,469
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Aircraft-Engineering Development	60
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Engineering Development	123,241
	HAWKER PACIFIC INC	California	ARMY	RDTE/Aircraft-Engineering Development	27
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY	RDTE/Aircraft-Engineering Development RDTE/Aircraft-Engineering Development	503 10,059
	STATE TOTAL				10,562
	HUGHES TRAINING SYS INC	Texas	USAF	RDTE/Aircraft-Engineering Development	10,601
	INTERMETRICS INC	Penn	NAVY	RDTE/Aircraft-Engineering Development	602
	INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Aircraft-Engineering Development	309
	J W K INTERNATIONAL CORP	Virginia	USAF	RDTE/Aircraft-Engineering Development	460
	LIGHT HELICOPTER TURBINE ENG	Missouri	ARMY	RDTE/Aircraft-Engineering Development	49,122
	LITTON SYSTEMS INC	Iowa	NAVY	RDTE/Aircraft-Engineering Development	304
	LOCKHEED CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	154,904
	LOGICON INC	California	USAF	RDTE/Aircraft-Engineering Development	737
	LORAL CORPORATION	Ohio	USAF	RDTE/Aircraft-Engineering Development	467
	LUCAS AEROSPACE POWER TRANS	New York	ARMY	RDTE/Aircraft-Engineering Development	838
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Aircraft-Engineering Development	95
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	200
	MC DONNELL DGLS GEN DYNAMCS JV	Missouri	NAVY	RDTE/Aircraft-Engineering Development	555,000
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Aircraft-Engineering Development	142,726

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AC14 (CONTINUED)					
	CONTRACTOR TOTAL				
	MCDONNELL DOUGLAS HLCPTR CO	Arizona	ARMY	RDTE/Aircraft-Engineering Development	\$ 810,872
	MCDONNELL DOUGLAS TRNING SYS	Oklahoma	USAF	RDTE/Aircraft-Engineering Development	953,598
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Aircraft-Engineering Development	1,585
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Engineering Development	80,916
	PNEU DEVICES INC	California	USAF	RDTE/Aircraft-Engineering Development	10,003
	PPG INDUSTRIES INC	Penn	NAVY	RDTE/Aircraft-Engineering Development	90,919
	R & D AERONAUTICAL ENGRG CO	Texas	ARMY	RDTE/Aircraft-Engineering Development	1,046,102
	REFLECTONE INC	Florida	USAF	RDTE/Aircraft-Engineering Development	66,400
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Aircraft-Engineering Development	59,866
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Aircraft-Engineering Development	233
	SCIENTIFIC MGT ASSOCIATES	Maryland	NAVY	RDTE/Aircraft-Engineering Development	117
	SEMTAS CORP	Virginia	ARMY	RDTE/Aircraft-Engineering Development	93
	STRESS TECH INC	New York	NAVY	RDTE/Aircraft-Engineering Development	125
	TECHNOLOGY INTGRN DEV GROUP	Mass	NAVY	RDTE/Aircraft-Engineering Development	125
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Aircraft-Engineering Development	311
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Aircraft-Engineering Development	230
					77,120
					77,350
					35
					1,166
					50
					49
					250
					1,293
					8,493

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AC14	(CONTINUED)				
	CONTRACTOR TOTAL				
	UNIVERSAL TECHNOLOGY CORP	Ohio	NAVY	RDTE/Aircraft-Engineering Development	\$ 894
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Aircraft-Engineering Development	9,387
	VEDA INCORPORATED	Penn	NAVY	RDTE/Aircraft-Engineering Development	8,428
	VEDA INTERNATIONAL INC	Ohio	USAF	RDTE/Aircraft-Engineering Development	52,856
	VER VAL ENTERPRISES INC	Florida	USAF	RDTE/Aircraft-Engineering Development	61,284
	VITRO CORPORATION	Maryland	NAVY	RDTE/Aircraft-Engineering Development	70,671
	WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Aircraft-Engineering Development	50
	R&D TOTAL				771
	AC15	California	NAVY	RDTE/Aircraft-Operational Systems Developm	185
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm	3,662
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Aircraft-Operational Systems Developm	233
	BOEING COMPANY THE	Penn	ARMY	RDTE/Aircraft-Operational Systems Developm	81
	CALSPAN CORPORATION	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	828
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	2,712,479
	FAIRCHILD INDUSTRIES INC	New York	USAF	RDTE/Aircraft-Operational Systems Developm	25
	FLIGHT REFUELING LTD	UNITED KIN	ARMY	RDTE/Aircraft-Operational Systems Developm	2,050
	GENERAL DYNAMICS CORPORATION	Texas	USAF	RDTE/Aircraft-Operational Systems Developm	3,828
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Aircraft-Operational Systems Developm	393
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Aircraft-Operational Systems Developm	118
					118
					2,498
					321
					771
					11,131
					259
					200

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC15 (CONTINUED)

GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Aircraft-Operational Systems Developm	\$	4,729
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Aircraft-Operational Systems Developm		59
		USAF	RDTE/Aircraft-Operational Systems Developm		85-
	STATE TOTAL				26-
INTERNATIONAL BUS MCHS CORP	New York	NAVY	RDTE/Aircraft-Operational Systems Developm		100
LOCKHEED CORPORATION	Georgia	USAF	RDTE/Aircraft-Operational Systems Developm		5,925
LOCKHEED TECHNICAL SERVICES CO	Texas	ARMY	RDTE/Aircraft-Operational Systems Developm		87
LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Aircraft-Operational Systems Developm		3,790
MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Aircraft-Operational Systems Developm		3,900
	Missouri	USAF	RDTE/Aircraft-Operational Systems Developm		19,716
					23,616
CONTRACTOR TOTAL					
ORLANDO HELICOPTER AIRWAYS	Florida	ARMY	RDTE/Aircraft-Operational Systems Developm		32
PEMCO AEROPLEX INC	Alabama	USAF	RDTE/Aircraft-Operational Systems Developm		58
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Operational Systems Developm		17,949
ROWE INCORPORATED	Virginia	NAVY	RDTE/Aircraft-Operational Systems Developm		263
SOUTHWEST AEROSPACE CORP	California	NAVY	RDTE/Aircraft-Operational Systems Developm		879
		USAF	RDTE/Aircraft-Operational Systems Developm		112
	STATE TOTAL				991
SYSTEMS & SIMULATION INC	Florida	NAVY	RDTE/Aircraft-Operational Systems Developm		195
TERABIT COMPUTER ENGINEERING	Utah	NAVY	RDTE/Aircraft-Operational Systems Developm		206
UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Aircraft-Operational Systems Developm		1,721
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Aircraft-Operational Systems Developm		27,000
R&D TOTAL					108,230
AC16 ADVANCED COMPOSITE PRODUCTS	Conn	ARMY	RDTE/Aircraft-Management & Support		293
ADVANCED DIVERSIFIED TECH INC	California	NAVY	RDTE/Aircraft-Management & Support		50

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AC16 (CONTINUED)					
	ADVANCED MECHANICAL TECHNOLOGY	Mass	USAF	RDTE/Aircraft-Management & Support	\$ 235
	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Aircraft-Management & Support	2,719
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Aircraft-Management & Support	400
	ARNCO	Tennessee	USAF	RDTE/Aircraft-Management & Support	255
	AVCO CORPORATION	Conn	ARMY	RDTE/Aircraft-Management & Support	769
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Aircraft-Management & Support	850
	BERKELEY APPLIED SCIENCES ENGRG	California	NAVY	RDTE/Aircraft-Management & Support	47
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Aircraft-Management & Support	86
	BLYTHE NELSON	Texas	NAVY	RDTE/Aircraft-Management & Support	47
	BOEING COMPANY THE	Kansas	NAVY	RDTE/Aircraft-Management & Support	300
		Penn	ARMY	RDTE/Aircraft-Management & Support	28
	CONTRACTOR TOTAL				328
	CALSPAN CORPORATION	New York	USAF	RDTE/Aircraft-Management & Support	964
	CERCOM INC	California	ARMY	RDTE/Aircraft-Management & Support	427
	CREW SYSTEMS CONSULTANTS	Ohio	USAF	RDTE/Aircraft-Management & Support	47
	CSA ENGINEERING INC	California	USAF	RDTE/Aircraft-Management & Support	165
	DEACON RESEARCH	California	USAF	RDTE/Aircraft-Management & Support	370
	DISPLAYTECH INC	Colorado	USAF	RDTE/Aircraft-Management & Support	134
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Aircraft-Management & Support	219
	EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Aircraft-Management & Support	127
	ELECTROCHEM INC	Mass	USAF	RDTE/Aircraft-Management & Support	56
	ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Aircraft-Management & Support	75
	ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Aircraft-Management & Support	384
	FIBER TECHNOLOGY CO	Utah	ARMY	RDTE/Aircraft-Management & Support	65

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AC16 (CONTINUED)					
	FIELD AVIATION WETS LTD	CANADA	NAVY	RDTE/Aircraft-Management & Support	567
	FLOWDRILL CORP	Washington	USAF	RDTE/Aircraft-Management & Support	76
	GUIDED SYS TECH GA	Georgia	NAVY	RDTE/Aircraft-Management & Support	50
	HIGH TECHNOLOGY CORPORATION	Virginia	USAF	RDTE/Aircraft-Management & Support	50
	HNC INC	California	USAF	RDTE/Aircraft-Management & Support	50
	HYPRES INC	New York	USAF	RDTE/Aircraft-Management & Support	46
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Aircraft-Management & Support	3,028
	MANTECH INTERNATIONAL CORP	California	USAF	RDTE/Aircraft-Management & Support	451
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY USAF	RDTE/Aircraft-Management & Support RDTE/Aircraft-Management & Support	125 199
			STATE TOTAL		324
	MODULAR DISPLAY SYSTEMS INC	Penn	NAVY	RDTE/Aircraft-Management & Support	70
	MSNW INC	California	USAF	RDTE/Aircraft-Management & Support	230
	NEW HAMPSHIRE MATERIAL LABORAT	N.H.	USAF	RDTE/Aircraft-Management & Support	70
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Aircraft-Management & Support	60
	PDA ENGINEERING	California	USAF	RDTE/Aircraft-Management & Support	55
	PRAXIS TECHNOLOGIES	New Jersey	NAVY	RDTE/Aircraft-Management & Support	50
	RAMSEARCH CO	Maryland	USAF	RDTE/Aircraft-Management & Support	200
	SIMULA INC	Arizona	ARMY	RDTE/Aircraft-Management & Support	261
	SPARTA INC	California	ARMY	RDTE/Aircraft-Management & Support	63
	SPUTTERTEX CORPORATION	Texas	USAF	RDTE/Aircraft-Management & Support	50
	SUPPORT SERVICES INC	Washington	USAF	RDTE/Aircraft-Management & Support	190
	SVERDRUP TECHNOLOGY INC	Tennessee	NAVY	RDTE/Aircraft-Management & Support	35
	TECH QUEST INC	Penn	USAF	RDTE/Aircraft-Management & Support	48

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AC16 (CONTINUED)						
	TECHNOLOGY INTGRN DEV GROUP	Mass	ARMY	RDTE/Aircraft-Management & Support		313
	TERRA TEK INC	Utah	USAF	RDTE/Aircraft-Management & Support		370
	TEXTRON INC	California	ARMY	RDTE/Aircraft-Management & Support		377
	THERMACORE INC	Penn	USAF	RDTE/Aircraft-Management & Support		65
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Aircraft-Management & Support		1,911
	ULTRAMET	California	USAF	RDTE/Aircraft-Management & Support		50
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Aircraft-Management & Support		11,620
	R&D TOTAL					29,842
AC21	A A I CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea		4,000
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Missile and Space Systems-Basic Resea		326
	AEROJET	California	USAF	RDTE/Missile and Space Systems-Basic Resea		617
	AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		326
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Missile and Space Systems-Basic Resea		70
	ARDAK CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea		49
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Basic Resea		78
	AVCO CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		8,623
	CONTRACTOR TOTAL	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,100
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Missile and Space Systems-Basic Resea		9,723
	CALSPAN CORPORATION	Penn	NAVY	RDTE/Missile and Space Systems-Basic Resea		1,181
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea		70
	CHAMBERLAIN MANUFACTURING CORP	Maine	ARMY	RDTE/Missile and Space Systems-Basic Resea		65
	CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Missile and Space Systems-Basic Resea		30-
	FORWARD UNLIMITED	California	USAF	RDTE/Missile and Space Systems-Basic Resea		2,030
						88

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC21 (CONTINUED)

FOSTER MILLER INC	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$	222
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		931
GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea		640
	Penn	ARMY	RDTE/Missile and Space Systems-Basic Resea		155-
	Vermont	ARMY	RDTE/Missile and Space Systems-Basic Resea		70-
CONTRACTOR TOTAL					415
GENERAL PNEUMATICS CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea		387
HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,407
HERCULES INCORPORATED	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea		5,250
HEWLETT PACKARD COMPANY	New Mexico	ARMY	RDTE/Missile and Space Systems-Basic Resea		282
HONEYWELL INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Basic Resea		963
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		13,842
		USAF	RDTE/Missile and Space Systems-Basic Resea		100
STATE TOTAL					13,942
KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Missile and Space Systems-Basic Resea		800
KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea		2,622
LEADING SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		2,200
LOCKHEED SPACE OPERS CO	Florida	USAF	RDTE/Missile and Space Systems-Basic Resea		24,559
LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Missile and Space Systems-Basic Resea		312
LORAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Basic Resea		746
LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,313
MARK RESOURCES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea		63
MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Basic Resea		220
	Florida	ARMY	RDTE/Missile and Space Systems-Basic Resea		1,020

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC21 (CONTINUED)					
	CONTRACTOR TOTAL				
	MASSACHSETTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	\$ 12,402
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Basic Resea	13,422
		Missouri	NAVY	RDTE/Missile and Space Systems-Basic Resea	13,642
	CONTRACTOR TOTAL				80
	MILLIMETER WAVE TECHNOLOGY	Georgia	NAVY	RDTE/Missile and Space Systems-Basic Resea	46
	PDA ENGINEERING	New Mexico	NAVY	RDTE/Missile and Space Systems-Basic Resea	788
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Basic Resea	834
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	50
			USAF	RDTE/Missile and Space Systems-Basic Resea	57
	CONTRACTOR TOTAL				128
	SCIENCE & TECHNOLOGY ASSOC	Virginia	ARMY	RDTE/Missile and Space Systems-Basic Resea	157
	SIERRA NEVADA CORPORATION	Nevada	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,186
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	2,108
	STANFORD UNIVERSITY	California	ARMY	RDTE/Missile and Space Systems-Basic Resea	922
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Basic Resea	1,000
	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Basic Resea	3,060
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	19,569
			NAVY	RDTE/Missile and Space Systems-Basic Resea	7,249
	CONTRACTOR TOTAL				1,112
	THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Basic Resea	8,361
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	1,339
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Missile and Space Systems-Basic Resea	120
					201

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC21 (CONTINUED)					
	UNIVERSITY OF DAYTON INC	California	USAF	RDTE/Missile and Space Systems-Basic Resea	\$ 2,562
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY USAF	RDTE/Missile and Space Systems-Basic Resea RDTE/Missile and Space Systems-Basic Resea	5,186 105
		STATE TOTAL			5,291
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Missile and Space Systems-Basic Resea	173
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	USAF	RDTE/Missile and Space Systems-Basic Resea	37
	WESTINGHOUSE ELECTRIC CORP	Ohio	ARMY	RDTE/Missile and Space Systems-Basic Resea	600
	R&D TOTAL				136,484
AC22	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Exploratory	536
	AEROJET	California	USAF	RDTE/Missile and Space Systems-Exploratory	121
	AEROJET TACTICAL SYSTEMS COMPA	California	USAF	RDTE/Missile and Space Systems-Exploratory	36
	AEROSPACE DESIGN & DEV	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	201
	ALABAMA CRYOGENIC ENGINEERING	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory	113
	AMERICAN SCIENCE & ENGINEERING	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	50
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory	140
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Exploratory	1,071
	ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Exploratory	30
	BOEING COMPANY THE	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	1,164
	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Exploratory	40
	CALIFORNIA ST UNIV SAN DIEGO	California	USAF	RDTE/Missile and Space Systems-Exploratory	31
	COMPUTER SCIENCES CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	1,843
	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory	912
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Missile and Space Systems-Exploratory	414
	FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Exploratory	244

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AC22 (CONTINUED)					
	FORD AEROSPACE CORPORATION	California	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	\$ 333 3,590
		STATE TOTAL			3,923
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	152
	GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	720
	GENERAL DYNAMICS CORPORATION	California	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory	289 3,806
		STATE TOTAL			4,095
	GENERAL ELECTRIC COMPANY	Penn	ARMY	RDTE/Missile and Space Systems-Exploratory	5,751
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	770
	GRUMMAN CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	130
	HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	132
	HARVARD UNIVERSITY	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	113
	HERCULES INCORPORATED	Maryland	USAF	RDTE/Missile and Space Systems-Exploratory	9,215
		Utah	USAF	RDTE/Missile and Space Systems-Exploratory	526
		CONTRACTOR TOTAL			9,741
	HIBBITT KARLSSON & SORENSEN	Rhode Isld	USAF	RDTE/Missile and Space Systems-Exploratory	30
	HOLOMETRIX INC	Mass	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Missile and Space Systems-Exploratory	34,193
	INNOVATIVE RESEARCH INC	Minnesota	NAVY	RDTE/Missile and Space Systems-Exploratory	50
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Exploratory	153
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Exploratory	250
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Missile and Space Systems-Exploratory	85
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	91
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Missile and Space Systems-Exploratory	1,104

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AC22 (CONTINUED)				
LORAL CORPORATION	New York	USAF	RDTE/Missile and Space Systems-Exploratory	162
LORD CORPORATION	N Carolina	NAVY	RDTE/Missile and Space Systems-Exploratory	35
LTV AEROSPACE & DEF CO	New York	USAF	RDTE/Missile and Space Systems-Exploratory	200
M M R TECHNOLOGIES INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory	464
MAINSTREAM ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Exploratory	350
MARQUARDT COMPANY THE	California	USAF	RDTE/Missile and Space Systems-Exploratory	56
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Exploratory	134
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Exploratory	75
	Missouri	ARMY	RDTE/Missile and Space Systems-Exploratory	169
		USAF	RDTE/Missile and Space Systems-Exploratory	4,114
	STATE TOTAL			4,283
				4,358
CONTRACTOR TOTAL				
NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Missile and Space Systems-Exploratory	511
NORSAL INDUSTRIES INC	New York	NAVY	RDTE/Missile and Space Systems-Exploratory	49
OPTELECOM INC	Maryland	NAVY	RDTE/Missile and Space Systems-Exploratory	332
P D I TECHNOLOGY INC	California	USAF	RDTE/Missile and Space Systems-Exploratory	60
PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Missile and Space Systems-Exploratory	35
PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Missile and Space Systems-Exploratory	56
RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Exploratory	1,475
		USAF	RDTE/Missile and Space Systems-Exploratory	246
	STATE TOTAL			1,721
ROCKET RESEARCH CO	Washington	USAF	RDTE/Missile and Space Systems-Exploratory	309
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Missile and Space Systems-Exploratory	50
		USAF	RDTE/Missile and Space Systems-Exploratory	14,581
	STATE TOTAL			14,631

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AC22 (CONTINUED)

SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Exploratory	\$	228
SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Missile and Space Systems-Exploratory		80
SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory		56 92
STATE TOTAL					
SIGPRO SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Exploratory		148
SILICON DESIGNS INC	Washington	NAVY	RDTE/Missile and Space Systems-Exploratory		71
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory		507
SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Exploratory		589
SRI INTERNATIONAL	California	USAF	RDTE/Missile and Space Systems-Exploratory		44
SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Exploratory		183
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Missile and Space Systems-Exploratory		122
TELEDYNE INDUSTRIES INC	Alabama	NAVY	RDTE/Missile and Space Systems-Exploratory		245
TEXTRON INC	New York	USAF	RDTE/Missile and Space Systems-Exploratory		94
THIOKOL CORPORATION	Utah	USAF	RDTE/Missile and Space Systems-Exploratory		144
TRW INC	California	USAF	RDTE/Missile and Space Systems-Exploratory		755
ULTRAMET	California	USAF	RDTE/Missile and Space Systems-Exploratory		1,119
UNITED TECHNOLOGIES CORP	California	NAVY USAF	RDTE/Missile and Space Systems-Exploratory RDTE/Missile and Space Systems-Exploratory		672 270 249
STATE TOTAL					
CONTRACTOR TOTAL					
UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Missile and Space Systems-Exploratory		519
UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Missile and Space Systems-Exploratory		1,016
UNIVERSITY OF HAWAII	Hawaii	USAF	RDTE/Missile and Space Systems-Exploratory		1,535
UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Missile and Space Systems-Exploratory		144

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R&D	CONTRACTOR NAME	ST/ENTRY	DEPT	R&D DESCRIPTION	
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AC22 (CONTINUED)

UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Missile and Space Systems-Exploratory	\$	109
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Missile and Space Systems-Exploratory		51
UNIVERSITY OF UTAH	Utah	USAF	RDTE/Missile and Space Systems-Exploratory		57
VATELL CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory		53
WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Missile and Space Systems-Exploratory		471
ZONIC CORPORATION	Ohio	NAVY	RDTE/Missile and Space Systems-Exploratory		46
R&D TOTAL					100,072
AC23 A K M ASSOC INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		50
A P A OPTICS INC	Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De		762
ACTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De		132
ACUREX CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		9,777
ADROIT SYSTEMS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		138
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De		1,277
ADVANCED FUEL RESEARCH INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		599
ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Missile and Space Systems-Advanced De		67
ADVANCED SCIENCES INC	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		2,031
		USAF	RDTE/Missile and Space Systems-Advanced De		126
STATE TOTAL					2,157
ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		143
AERODYNE RESEARCH INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		58
AEROJET	California	ARMY	RDTE/Missile and Space Systems-Advanced De		4,441
		USAF	RDTE/Missile and Space Systems-Advanced De		18,558
STATE TOTAL					22,999
AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Advanced De		53
		USAF	RDTE/Missile and Space Systems-Advanced De		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	AIREX CORPORATION	N.H.	USAF	RDTE/Missile and Space Systems-Advanced De	103
	ALABAMA A & M UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Advanced De	136
		Maryland	NAVY	RDTE/Missile and Space Systems-Advanced De	6,143
					2,769
					8,912
					4,456
	CONTRACTOR TOTAL				
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	502
	ALUMINUM COMPANY OF AMERICA	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	244
	AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	49
	AMERICAN RESEARCH CORP VA	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	1,852
	ANALOG DEVICES INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	190
	ANALYTIC POWER CORP	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	751
	ANDROMEDA CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	343
	ANRO ENGINEERING INC	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	54
					397
	STATE TOTAL				
	APPLIED RESEARCH & ENGRG	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	APPLIED RESEARCH ASSOC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	48
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,885
	APTEK INC	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	3,879
	ASTRONAUTICS CORP AMERICA	Wisconsin	USAF	RDTE/Missile and Space Systems-Advanced De	300
	ASTROPOWER INC	Delaware	ARMY USAF	RDTE/Missile and Space Systems-Advanced De	353
					150
					503
	STATE TOTAL				
	AT&T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	704

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AC23 (CONTINUED)

ATLANTIC RESEARCH CORPORATION	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	\$	1,579
ATM COMPUTER GMBH	GERMANY, F	ARMY	RDTE/Missile and Space Systems-Advanced De		3,227
AURA SYSTEMS	California	USAF	RDTE/Missile and Space Systems-Advanced De		801
AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		47
AUTOMATED SCIENCES GROUP INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		7,913
AUTONOMOUS TECHNOLOGIES CORP	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		323
AVCO CORPORATION	Louisiana	USAF	RDTE/Missile and Space Systems-Advanced De		36-
	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		91
		USAF	RDTE/Missile and Space Systems-Advanced De		141
	STATE TOTAL				232
					196

CONTRACTOR TOTAL

AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		4,183
B B L RESEARCH INC	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		49
BALL CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De		2,004
BARRON ASSOCIATES INC	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De		61
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De		1,927
		USAF	RDTE/Missile and Space Systems-Advanced De		35
	STATE TOTAL				1,962

BDM INTERNATIONAL INC

Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	12,960
New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De	112

CONTRACTOR TOTAL

BELTRAN ASSOCIATES INC	New York	NAVY	RDTE/Missile and Space Systems-Advanced De	50
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De	83,844
		USAF	RDTE/Missile and Space Systems-Advanced De	31,268

STATE TOTAL

115,112

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AC23 (CONTINUED)					
	BOEING COMPANY THE	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	115,454
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	30
	BOOZ ALLEN & HAMILTON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	1,607
		Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	176
	CONTRACTOR TOTAL				1,783
	BP AMERICA INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De	65
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	165
	C V ASSOCIATES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Missile and Space Systems-Advanced De	31
	CAS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	135
	CHRONOS RESEARCH LABORATORIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	103
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	94
	CLEVELAND CRYSTALS INC	Ohio	ARMY	RDTE/Missile and Space Systems-Advanced De	51
	COLEMAN RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	7,002
	COLSA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	22,107
	COMPUTATIONAL ENGINEERING INC	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	121
	CONCEPTUAL SOFTWARE SYSTEMS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	CONDUCTUS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	194
	CORDEC CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	98
	CREARE INC	N.H.	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	52 1,228
	CRYSTALLUME	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,280
	STATE TOTAL				56

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	DEACON RESEARCH	California	ARMY	RDTE/Missile and Space Systems-Advanced De	450
	DEFENSE GROUP INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	100
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	318
	DELTA RESEARCH INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	74
	DEMACO	Illinois	USAF	RDTE/Missile and Space Systems-Advanced De	63
	DESE RESEARCH & ENGINEERING	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	DIAMOND MATERIALS INC	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	60
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	7,033
			USAF	RDTE/Missile and Space Systems-Advanced De	34,144
					41,177
			STATE TOTAL		
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	620
	DUNLOP AVIATION INC	UNITED KIN	USAF	RDTE/Missile and Space Systems-Advanced De	169
	DYNACS ENGINEERING CO INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	375
	DYNAMICS TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Advanced De	300
	DYNETICS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,430
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	137
	E TEK DYNAMICS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	103
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Missile and Space Systems-Advanced De	502
	EER SYSTEMS CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	865
	EHRENPREIS DAVID B	New Jersey	NAVY	RDTE/Missile and Space Systems-Advanced De	140
	ELECTRO MAGNETIC APPLICATION	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De	50
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	54
	ELECTROMAGNETIC LAUNCH RES	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	150
	ELECTRON TRANSFER TECHNOLOGIES	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	53

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	EMCORE CORP	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	EPION CORP	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	64
	EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	FAIL SAFE TECHNOLOGY CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	149
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Missile and Space Systems-Advanced De	2,129
	FLORIDA A & M UNIVERSITY	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	152
	FLOW INDUSTRIES INC	Washington	USAF	RDTE/Missile and Space Systems-Advanced De	100
	FMC CORPORATION	Minnesota	USAF	RDTE/Missile and Space Systems-Advanced De	192-
	FORD AEROSPACE CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	540
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	347
	CONTRACTOR TOTAL				887
	FOSTER MILLER INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	2,185
		Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	54
	CONTRACTOR TOTAL				2,239
	G T DEVICES INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	250
	GENCORP INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	4,000
			USAF	RDTE/Missile and Space Systems-Advanced De	3,480
	STATE TOTAL				7,480
	GENERAL ATOMICS	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
			USAF	RDTE/Missile and Space Systems-Advanced De	190
	STATE TOTAL				240
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	423
			USAF	RDTE/Missile and Space Systems-Advanced De	670
	STATE TOTAL				1,093
		Texas	USAF	RDTE/Missile and Space Systems-Advanced De	560

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Missile and Space Systems-Advanced De	1,653
		New York	ARMY	RDTE/Missile and Space Systems-Advanced De	370
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	268
	CONTRACTOR TOTAL				3,051
	GENERAL RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,689
		California	USAF	RDTE/Missile and Space Systems-Advanced De	10,025
		Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	285
	CONTRACTOR TOTAL				1,300
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	11,610
		USAF	RDTE/Missile and Space Systems-Advanced De	4,052	
	STATE TOTAL				74
	GIGABIT LOGIC INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	4,126
	GREEN MOUNTAIN RADIO RES CO	Vermont	USAF	RDTE/Missile and Space Systems-Advanced De	672
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	62
	GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	26,683
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	4,000
	H M TECHNOLOGY INC	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	3,230
	HARRIS CORPORATION	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	397
	HARRIS SEMICONDUCTOR	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De	2,159
	HERCULES INCORPORATED	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	2,665
	CONTRACTOR TOTAL				2,165
	HILTON SYSTEMS INC	W Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	147
		Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,312
					200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	HNC INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	187
	HONEYWELL INC	Arizona	USAF	RDTE/Missile and Space Systems-Advanced De	1,954
		Florida	USAF	RDTE/Missile and Space Systems-Advanced De	16,365
		Minnesota	ARMY	RDTE/Missile and Space Systems-Advanced De	9,410
	CONTRACTOR TOTAL				27,729
	HUGHES AIRCRAFT COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	13,200
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	4,292
			USAF	RDTE/Missile and Space Systems-Advanced De	10,223
	STATE TOTAL				14,515
	CONTRACTOR TOTAL				27,715
	HYBERSONICS CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	70
	I A P RESEARCH INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	29
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Missile and Space Systems-Advanced De	190
	I M E C	California	ARMY	RDTE/Missile and Space Systems-Advanced De	46
	IMPLANT SCIENCES CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	59
	INNOVATIVE SOLUTIONS FROM ADVA	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	51
			USAF	RDTE/Missile and Space Systems-Advanced De	50
	STATE TOTAL				101
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	291
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Missile and Space Systems-Advanced De	1,700
		Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	14,350
	CONTRACTOR TOTAL				16,050
	INTERNATIONAL FUEL CELLS CORP	Conn	USAF	RDTE/Missile and Space Systems-Advanced De	450
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	1,500
	IONIC ATLANTA INCORPORATED	Georgia	ARMY	RDTE/Missile and Space Systems-Advanced De	140

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	470
	J & D SCIENTIFIC INC	Montana	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	JAYCOR	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,331
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	30
	KAISER AEROSPACE & ELEC CORP	California	USAF	RDTE/Missile and Space Systems-Advanced De	200
	KAMAN SCIENCES CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,930
		Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	9,856
			USAF	RDTE/Missile and Space Systems-Advanced De	270-
			STATE TOTAL		9,586
					12,516
	KDI PRECISION PRODUCTS INC	Ohio	NAVY	RDTE/Missile and Space Systems-Advanced De	439
	L GARDE INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	1,359
	L N K CORPORATION	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	LASER SCIENCE INC	Mass	NAVY	RDTE/Missile and Space Systems-Advanced De	1,210
	LASER TOOLS INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	LINEAR MONOLITHICS INCORPORAT	California	ARMY	RDTE/Missile and Space Systems-Advanced De	37-
	LITECOM INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	49
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De	8,126
	LITTON SYSTEMS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	294
		Penn	USAF	RDTE/Missile and Space Systems-Advanced De	109
			CONTRACTOR TOTAL		403
	LOCKHEED TECHNICAL SERVICES CO	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	166
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	130,343
			USAF	RDTE/Missile and Space Systems-Advanced De	8,548
			STATE TOTAL		138,891

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AC23 (CONTINUED)					
	CONTRACTOR TOTAL				
	LORAL CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De	139,057
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	278
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	74,274
			USAF	RDTE/Missile and Space Systems-Advanced De	738
	STATE TOTAL				9,333
					10,071
					1,049
					11,120
	CONTRACTOR TOTAL				
	MATERIALS MODIFICATION INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	187
	MATERIALS TECHNOLOGIES CORP	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De	350
	MAYO FOUNDATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De	2,538
	MC DANIEL JOHN L ENTERPRISES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	57
	MCDONNELL DOUGLAS CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	430
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	93,254
			USAF	RDTE/Missile and Space Systems-Advanced De	1,199
	STATE TOTAL				94,453
					4,181
					2,530
					6,711
	CONTRACTOR TOTAL				101,594
	MEMISTOR CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	476
	MESILLA VALLEY HIGH TECH IND	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,281
	MICROCOM CORPORATION	Penn	NAVY	RDTE/Missile and Space Systems-Advanced De	475
	MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Advanced De	2,526
	MIRAGE SYSTEMS	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	125
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	353

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

CONTRACTOR TOTAL						
MISSISSIPPI STATE UNIVERSITY	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	718	
MITCHLL STRLING MCHNES SYSTEMS	Miss	NAVY	RDTE/Missile and Space Systems-Advanced De		1,071	40
MORRO OSO ELECTRONICS	California	USAF	RDTE/Missile and Space Systems-Advanced De			55
MOTOROLA INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De			44
MTS SYSTEMS CORPORATION	Arizona	NAVY	RDTE/Missile and Space Systems-Advanced De			15,283
NATIONAL STL SHPBLDING COMPANY	Minnesota	NAVY	RDTE/Missile and Space Systems-Advanced De			40
NATIVE AMERICAN SERVICE ASSN	California	NAVY	RDTE/Missile and Space Systems-Advanced De			708
NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De			217
	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De			23,852
	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De			1-
	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De			499
CONTRACTOR TOTAL					24,350	
NORTH CAROLINA A&T UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De			30
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Missile and Space Systems-Advanced De			170
ODYSSEY RESEARCH ASSOCIATES	New York	ARMY	RDTE/Missile and Space Systems-Advanced De			56
OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De			158
ORINCON CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De			49
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Missile and Space Systems-Advanced De			2,462
OWL INTERNATIONAL INC	Marshall I	ARMY	RDTE/Missile and Space Systems-Advanced De			30
PDA ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Advanced De			74
PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Advanced De			171
PHASE IV SYSTEMS INCORPORATED	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De			1,237
PHOENIX DIGITAL CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Advanced De			49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

PHOTEL INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	58
PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De		582
PHYSICAL RESEARCH INC	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		98 50
	STATE TOTAL				148
PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Missile and Space Systems-Advanced De		106
PHYSICON INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		62
POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Missile and Space Systems-Advanced De		218
POTOMAC SYNEGETICS INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		50
PURDUE UNIVERSITY	Indiana	USAF	RDTE/Missile and Space Systems-Advanced De		27
QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De		498
R & D ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Advanced De		43
	Virginia	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		299 450
	STATE TOTAL				749
CONTRACTOR TOTAL					792
R J O ENTERPRISES INC	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De		6,621
RADIAN CORPORATION	Texas	USAF	RDTE/Missile and Space Systems-Advanced De		40
RAYMOND ENGINEERING INC	Conn	NAVY	RDTE/Missile and Space Systems-Advanced De		803
RAYTHEON COMPANY	Mass	ARMY NAVY	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		83,475 230
	STATE TOTAL				83,705
RDR INC	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De		2,960
REFRACTORY COMPOSITES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De		53
RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Missile and Space Systems-Advanced De		81

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AC23 (CONTINUED)

REYNOLDS INDUSTRIES INC	California	NAVY	RDTE/Missile and Space Systems-Advanced De	\$	241
ROCKWELL INTERNATIONAL CORP	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		18,591 55,420
	STATE TOTAL				74,011
CONTRACTOR TOTAL	Colorado	USAF	RDTE/Missile and Space Systems-Advanced De		715
					74,726
S S D RESEARCH CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Advanced De		50
S S G INC	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		55
S SYSTEMS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Advanced De		3,975
SACH SINHA & ASSOCIATES	California	ARMY NAVY	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		30 101
	STATE TOTAL				131
SATCON TECHNOLOGY CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		44
SCHMIDT INSTRUMENTS	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De		49
SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Missile and Space Systems-Advanced De		364
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De		1,528
	California	ARMY	RDTE/Missile and Space Systems-Advanced De		485
	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De		91
	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De		417
	Virginia	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		503 862
	STATE TOTAL				1,365
CONTRACTOR TOTAL					3,886
SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Missile and Space Systems-Advanced De		597
SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Missile and Space Systems-Advanced De		213

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	SEMTEC INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	320
	SIERRA MONOLITHICS INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	314
	SILICON DESIGNS INC	Washington	NAVY	RDTE/Missile and Space Systems-Advanced De	719
	SILICON ENGINES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	60
	SOCIETE EUROPEENE DE PROP SEP	FRANCE	ARMY	RDTE/Missile and Space Systems-Advanced De	245
	SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Advanced De	310
	SPACE DATA CORPORATION	Arizona	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	3,968 9,682
		STATE TOTAL			13,650
	SPACE POWER INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Advanced De	819
	SPACE TECH CORP	Colorado	ARMY	RDTE/Missile and Space Systems-Advanced De	325
	SPARTA INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	4,185
		California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	2,628 3,503
		STATE TOTAL			6,131
		Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	49
	CONTRACTOR TOTAL				10,365
	SPECTRUM RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	507
	SPIRE CORPORATION	Mass	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De	1,189 460
		STATE TOTAL			1,649
	SRI INTERNATIONAL	California	ARMY	RDTE/Missile and Space Systems-Advanced De	302
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,284
		California	USAF	RDTE/Missile and Space Systems-Advanced De	925
	CONTRACTOR TOTAL				3,209

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC23 (CONTINUED)					
	STOTTLER HENKE ASSOCIATES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	589
	SUPERCONDUCTOR TECHNOLOGIES	California	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	340
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	185
	TACAN CORPORATION	California	ARMY	RDTE/Missile and Space Systems-Advanced De	112
	TADIRAN ELECTRONIC INDUSTRIES	ISRAEL	ARMY	RDTE/Missile and Space Systems-Advanced De	10,993
	TECH QUEST INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	200
	TECHNOLOGY DEVELOPMENT CORP	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,721
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	68,631
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	100
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	8,178
	THERMO ELECTRON TECH CORP	California	ARMY	RDTE/Missile and Space Systems-Advanced De	1,966
	THIOKOL CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	2,631
		Maryland	USAF	RDTE/Missile and Space Systems-Advanced De	2,347
		Utah	USAF	RDTE/Missile and Space Systems-Advanced De	30
	CONTRACTOR TOTAL				5,008
	TRW INC	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	8,851
		California	ARMY	RDTE/Missile and Space Systems-Advanced De	7,324
		USAF	USAF	RDTE/Missile and Space Systems-Advanced De	15,108
	STATE TOTAL				22,432
	CONTRACTOR TOTAL				31,283
	TUSKEGEE UNIVERSITY	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	70
	UNISYS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Advanced De	2,933
	UNITED INTERNATIONAL ENGRG	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	752

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AC23 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNITED KINGDOM MINISTRY OF DEF	New Mexico	ARMY	RDTE/Missile and Space Systems-Advanced De	\$ 791
	UNITED TECHNOLOGIES CORP	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	1,543
		Conn	NAVY	RDTE/Missile and Space Systems-Advanced De	450
			USAF	RDTE/Missile and Space Systems-Advanced De	132
					1,860
	STATE TOTAL				1,992
		Florida	USAF	RDTE/Missile and Space Systems-Advanced De	700
	CONTRACTOR TOTAL				2,692
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	152
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Missile and Space Systems-Advanced De	3,740
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Missile and Space Systems-Advanced De	100
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Missile and Space Systems-Advanced De	103
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Missile and Space Systems-Advanced De	97
	UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Missile and Space Systems-Advanced De	36
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	550
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Missile and Space Systems-Advanced De	86
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Missile and Space Systems-Advanced De	200
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Missile and Space Systems-Advanced De	659
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Missile and Space Systems-Advanced De	50
	UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Missile and Space Systems-Advanced De	36
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Missile and Space Systems-Advanced De	286
	V R A INC	Virginia	USAF	RDTE/Missile and Space Systems-Advanced De	53
	VANGUARD RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Advanced De	300
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Missile and Space Systems-Advanced De	375

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC23 (CONTINUED)

WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Missile and Space Systems-Advanced De	\$	390
	Penn	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		158 1,613
CONTRACTOR TOTAL		STATE TOTAL			1,771
					2,161
WICKMAN SPOCRAFT PRPULSION CO	California	USAF	RDTE/Missile and Space Systems-Advanced De		48
XACTON CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Advanced De		64
XEMET INC	Washington	ARMY	RDTE/Missile and Space Systems-Advanced De		55
XERAD INC	California	USAF	RDTE/Missile and Space Systems-Advanced De		52
XONTECH INC	California	ARMY USAF	RDTE/Missile and Space Systems-Advanced De RDTE/Missile and Space Systems-Advanced De		1,024 3,945
		STATE TOTAL			4,969
R&D TOTAL					1,339,691

AC24 AEROJET

ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Missile and Space Systems-Engr Develo		12,641
ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo		2,200
BATTELLE MEMORIAL INSTITUTE	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo		486
BOEING AEROSPACE & ELECTRONICS	Ohio	NAVY	RDTE/Missile and Space Systems-Engr Develo		55
	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		32,691
	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo		19,288
CONTRACTOR TOTAL					51,979
BOEING COMPANY THE	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo		49,960
	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo		14,213
CONTRACTOR TOTAL					64,173
BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Missile and Space Systems-Engr Develo		149,684
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo		225

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)				
CHAMBERLAIN MANUFACTURING CORP	Iowa	NAVY	RDTE/Missile and Space Systems-Engr Develo	\$ 37
CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Engr Develo	400
CONVENTIONAL MUNITIONS SYSTEMS	Virginia	ARMY	RDTE/Missile and Space Systems-Engr Develo	2,099
CROSS SYSTEMS INC	Georgia	USAF	RDTE/Missile and Space Systems-Engr Develo	2,654
CTA INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Engr Develo	683
EARTH TECHNOLOGY CORP USA	California	USAF	RDTE/Missile and Space Systems-Engr Develo	5,633
ELECTROSPACE SYSTEMS INC	Texas	USAF	RDTE/Missile and Space Systems-Engr Develo	8,930
FAIRCHILD INDUSTRIES INC	New York	USAF	RDTE/Missile and Space Systems-Engr Develo	49
FMC CORPORATION	Minnesota	NAVY	RDTE/Missile and Space Systems-Engr Develo	3,200
	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	86-
CONTRACTOR TOTAL				3,114
FORD AEROSPACE CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	210
	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	34,088
CONTRACTOR TOTAL				34,298
GENCORP INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	55,787
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	11,077
	Conn	NAVY	RDTE/Missile and Space Systems-Engr Develo	41
CONTRACTOR TOTAL				11,118
GENERAL ELECTRIC COMPANY	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	1,529
	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	246
	Penn	USAF	RDTE/Missile and Space Systems-Engr Develo	7,763
CONTRACTOR TOTAL				9,538
GENERAL OFFSHORE CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Engr Develo	783
GEODYNAMICS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,673

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC24 (CONTINUED)					
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	\$ 456
		Mass	USAF	RDTE/Missile and Space Systems-Engr Develo	5,756
	CONTRACTOR TOTAL				6,212
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Missile and Space Systems-Engr Develo	119
			USAF	RDTE/Missile and Space Systems-Engr Develo	36,268
	STATE TOTAL				36,387
	HONEYWELL INC	Florida	USAF	RDTE/Missile and Space Systems-Engr Develo	7,000
		New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	495
	CONTRACTOR TOTAL				7,495
	HUGHES AIRCRAFT COMPANY	Arizona	USAF	RDTE/Missile and Space Systems-Engr Develo	90
		California	NAVY	RDTE/Missile and Space Systems-Engr Develo	10,957
			USAF	RDTE/Missile and Space Systems-Engr Develo	49
	STATE TOTAL				11,006
	CONTRACTOR TOTAL				11,096
	HUMBUG MOUNTAIN RESERACH LABS	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	270
	INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Engr Develo	144
	INTERSTATE ELECTRONICS CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	725
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Missile and Space Systems-Engr Develo	67
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	104
	LITTON SYSTEMS INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,986
			USAF	RDTE/Missile and Space Systems-Engr Develo	8,703
	STATE TOTAL				11,689
	CONTRACTOR TOTAL				91-
	LOCKHEED TECHNICAL SERVICES CO	Utah	USAF	RDTE/Missile and Space Systems-Engr Develo	11,598
		California	NAVY	RDTE/Missile and Space Systems-Engr Develo	29

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC24 (CONTINUED)

	CONTRACTOR TOTAL	USAF	RDTE/Missile and Space Systems-Engr Develo	\$
LOGICON INC	STATE TOTAL	USAF	RDTE/Missile and Space Systems-Engr Develo	100
	California	USAF	RDTE/Missile and Space Systems-Engr Develo	129
LORAL CORPORATION	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	9,999
	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	24,923
		NAVY	RDTE/Missile and Space Systems-Engr Develo	3,351
				28,274
LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	15,309
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	52,123
MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Missile and Space Systems-Engr Develo	62,368
MATHEMATICAL ANALYSIS RESEARCH	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	223
MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Missile and Space Systems-Engr Develo	4,610
MICROCOSM	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,400
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	818
MOTOROLA INC	Arizona	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,440
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Missile and Space Systems-Engr Develo	90
NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Engr Develo	797
PACER SYSTEMS INC	Penn	NAVY	RDTE/Missile and Space Systems-Engr Develo	35
PALISADES GEOPHYSICAL INST	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo	872
RAYTHEON COMPANY	California	USAF	RDTE/Missile and Space Systems-Engr Develo	109
	Mass	ARMY	RDTE/Missile and Space Systems-Engr Develo	45,169
		NAVY	RDTE/Missile and Space Systems-Engr Develo	76,489
	STATE TOTAL			121,658
	Tennessee	NAVY	RDTE/Missile and Space Systems-Engr Develo	230
CONTRACTOR TOTAL				121,997
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	159,146

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AC24 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	ROYAL NORWEGIAN NAVAL MATERIAL	Georgia	ARMY	RDTE/Missile and Space Systems-Engr Develo	8,037
	SCIENCE APPLICATIONS INTL CORP	NORWAY	NAVY	RDTE/Missile and Space Systems-Engr Develo	167,183
	SIPPICAN INC	California	NAVY	RDTE/Missile and Space Systems-Engr Develo	1,608
	SOUTHERN RESEARCH TECHNOLOGIES	Mass	NAVY	RDTE/Missile and Space Systems-Engr Develo	2,566
		Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	3,659
			NAVY	RDTE/Missile and Space Systems-Engr Develo	742
					586
	STATE TOTAL				1,328
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Missile and Space Systems-Engr Develo	1,755
	SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Engr Develo	150
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	714
	TEXAS INSTRUMENTS INCORPORATED	Colorado	USAF	RDTE/Missile and Space Systems-Engr Develo	21,574
		Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	4,206
			NAVY	RDTE/Missile and Space Systems-Engr Develo	899
	STATE TOTAL				5,105
	CONTRACTOR TOTAL				26,679
	THIOKOL CORPORATION	Utah	NAVY	RDTE/Missile and Space Systems-Engr Develo	41
			USAF	RDTE/Missile and Space Systems-Engr Develo	7,088
	STATE TOTAL				7,129
	TI & MARTIN AAWS-M JV	Texas	ARMY	RDTE/Missile and Space Systems-Engr Develo	49,506
	TITAN SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	432
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Engr Develo	168,747
	UNISYS CORPORATION	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo	13,892-
	UNITED INTERNATIONAL ENGRG	Alabama	ARMY	RDTE/Missile and Space Systems-Engr Develo	412
		New Mexico	ARMY	RDTE/Missile and Space Systems-Engr Develo	790

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AC24 (CONTINUED)

CONTRACTOR TOTAL					\$
VITRO CORPORATION	Maryland	NAVY	RDTE/Missile and Space Systems-Engr Develo		1,202
		USAF	RDTE/Missile and Space Systems-Engr Develo		1,172
					867
	STATE TOTAL				2,039
WALTER DORWIN TEAGUE ASSOC	New York	NAVY	RDTE/Missile and Space Systems-Engr Develo		293
WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Missile and Space Systems-Engr Develo		56,428
		USAF	RDTE/Missile and Space Systems-Engr Develo		118,017
	STATE TOTAL				174,445
					1,388,364
R&D TOTAL					
AC25 AEROJET	California	USAF	RDTE/Missile and Space Systems-Op Systems		868
AEROMET INC	Oklahoma	ARMY	RDTE/Missile and Space Systems-Op Systems		6,537
	Marshall I	ARMY	RDTE/Missile and Space Systems-Op Systems		2,437
					8,974
ASTRO VALCOUR INC	New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems		15,410
BOEING COMPANY THE	Kansas	USAF	RDTE/Missile and Space Systems-Op Systems		147-
COMMUNICATION MFG CO	California	USAF	RDTE/Missile and Space Systems-Op Systems		1,334
	Colorado	USAF	RDTE/Missile and Space Systems-Op Systems		378
					1,712
CONTEL FEDERAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems		12,520
ELECTRONIC WARFARE ASSOCIATES	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems		1,511
	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems		1,278
					2,789
GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Missile and Space Systems-Op Systems		17,560
HARRIS CORPORATION	Florida	USAF	RDTE/Missile and Space Systems-Op Systems		2,761
	Nebraska	USAF	RDTE/Missile and Space Systems-Op Systems		1,751

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC25 (CONTINUED)					
	CONTRACTOR TOTAL				
	HERCULES INCORPORATED	Utah	USAF	RDTE/Missile and Space Systems-Op Systems	4,512
	HONEYWELL INC	Florida	USAF	RDTE/Missile and Space Systems-Op Systems	248
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Missile and Space Systems-Op Systems	450
	INTEGRAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,625
	INTERNATIONAL BUS MCHS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Op Systems	1,681
	ISYS SECURITY SYSTEMS INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	4,631
	J W P INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	90
	KAMAN SCIENCES CORPORATION	Colorado	NAVY	RDTE/Missile and Space Systems-Op Systems	230
	LOCKHEED TECHNICAL SERVICES CO	California	NAVY	RDTE/Missile and Space Systems-Op Systems	4,374
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	176
		Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	3,555
		Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,606,502
		GERMANY, F	ARMY	RDTE/Missile and Space Systems-Op Systems	2,800
					57
	CONTRACTOR TOTAL				1,612,914
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	198
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	150
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Missile and Space Systems-Op Systems	1,605
	NORTHROP CORPORATION	California	USAF	RDTE/Missile and Space Systems-Op Systems	223-
	RAYTHEON COMPANY	Mass	ARMY	RDTE/Missile and Space Systems-Op Systems	9,716
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Missile and Space Systems-Op Systems	242-
		Colorado	USAF	RDTE/Missile and Space Systems-Op Systems	385
		New Mexico	ARMY	RDTE/Missile and Space Systems-Op Systems	4,025
	CONTRACTOR TOTAL				4,168

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AC25 (CONTINUED)					
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Missile and Space Systems-Op Systems	216
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Op Systems	374
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Missile and Space Systems-Op Systems	1,564
	SYSTEMS RES APPLICATIONS CORP	California	USAF	RDTE/Missile and Space Systems-Op Systems	2,160
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Missile and Space Systems-Op Systems	1,087
	THE ANALYTIC SCIENCE CORP	Mass	NAVY	RDTE/Missile and Space Systems-Op Systems	1,436
	TRW INC	California	USAF	RDTE/Missile and Space Systems-Op Systems	1,160
	UNISYS CORPORATION	New York	NAVY	RDTE/Missile and Space Systems-Op Systems	510
	VREULS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Missile and Space Systems-Op Systems	1,363
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Missile and Space Systems-Op Systems	1,873
	R&D TOTAL				1,717,974
AC26	A T S S INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	379
	AEROVIRONMENT INC	California	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	1,105
	ALABAMA CRYOGENIC ENGINEERING	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	60
	AMERICAN COMPOSITE TECHNOLOGY	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	334
	APPLIED RESEARCH ASSOC INC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	149
	APTEK INC	Colorado	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	120
	ARIAS RESEARCH ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	441
	AVCO CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	200
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	49
	COMPUTATIONAL MECHANICS CO	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	193
	COMPUTER SCIENCES CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	600
	CONTEL FEDERAL SYSTEMS INC	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	2,664
	CREARE INC	N.H.	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	140
	CRYSTALLUME	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	64

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	CTK ENTERPRISES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 227
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	50
	DYNAMICS TECHNOLOGY	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	55
	E I C LABORATORY INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	54
	ELECTRIC PROPULSION LABORATORY	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	60
	ENGINEERING MECHANICS ASSOC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	162
	EXTREL CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	42
	FLAM & RUSSELL INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	FOSTER CONSULTING CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	29
	FOSTER MILLER INC	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	181
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	169
	GENERAL SCIENCES INC	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	403
	HITTITE MICROWAVE CORPORATION	Mass	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	412
	HUGHES AIRCRAFT COMPANY	Arizona	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	853
	HYBERSONICS CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	131
	I A P RESEARCH INC	Ohio	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	INTEGRATED ACCELERATOR TECH	Florida	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	44
	INTERACTIVE INTELL IMAGERY GRP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	266
	JAYCOR	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	60
	KETRON INC	Penn	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	41
	LYNNTECH INC	Texas	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	61
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	1,268
	MARTIN MARIETTA CORPORATION	Florida	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	24,110

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC26 (CONTINUED)					
	MICROCOM CORPORATION	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	\$ 46
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	1,306
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	244
	OHRN ENTERPRISES INC	New York	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	63
	PDA ENGINEERING	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	327
	PERCEPTICS CORPORATION	Tennessee	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	270
	PHYSICAL DYNAMICS INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	50
	POWER SPECTRA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	57
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	59
	REKENTHALER TECHNOLOGY ASSOC	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	86
	SACH SINHA & ASSOCIATES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	122
	SAFETY CONSULTING ENGINEERS	Illinois	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	45
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	31
	SCIENCE APPLICATIONS INTL CORP	Penn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	579
	SOFTWARE & ENGINEERING ASSOC	Nevada	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	49
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	199
	SPACE POWER INCORPORATED	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	48
	SPARTA INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	465
	SRS TECHNOLOGIES	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	27
	ST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	48
	STAR TECHNOLOGIES INC	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	39
	SYNETICS CORPORATION	Mass	ARMY	RDTE/Missile and Space Systems-Mgmt & Supp	434
	SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	605

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC26 (CONTINUED)					
	SYSTEMS TECHNOLOGY INC	Virginia	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	45
	TECHNO SCIENCES INC	Maryland	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	63
	THE ANALYTIC SCIENCE CORP	Mass	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	1,804
	TOYON RESEARCH CORP	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	140
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Missile and Space Systems-Mgmt & Supp	750
	TREADWELL CORPORATION	Conn	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	200
	VISTA RESEARCH	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	785
	XONTECH INC	California	USAF	RDTE/Missile and Space Systems-Mgmt & Supp	63
	R&D TOTAL				44,422
AC31	A P S MATERIALS INC	Ohio	NAVY	RDTE/Ships-Basic Research	47
	ADVANCED COMPOSITE PRODUCTS	Conn	NAVY	RDTE/Ships-Basic Research	58
	ADVANCED MECHANICAL TECHNOLOGY	Mass	NAVY	RDTE/Ships-Basic Research	50
	ADVANCED RATIO DESIGN	Penn	NAVY	RDTE/Ships-Basic Research	50
	ADVANCED WASTE TRTMENT TCHNLOGY	Illinois	NAVY	RDTE/Ships-Basic Research	50
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Ships-Basic Research	60
	ANALYTICS INCORPORATED	Penn	NAVY	RDTE/Ships-Basic Research	49
	ANRO ENGINEERING INC	Florida	NAVY	RDTE/Ships-Basic Research	497
	APPLIED COMBUSTION TECHNOLOGY	Florida	NAVY	RDTE/Ships-Basic Research	50
	APPLIED LOGIC SYSTEMS INC	New York	NAVY	RDTE/Ships-Basic Research	51
	APPLIED RESEARCH ASSOC INC	New Mexico	NAVY	RDTE/Ships-Basic Research	48
	APPLIED SCIENCES INC	Ohio	NAVY	RDTE/Ships-Basic Research	50
	ASOMA INSTRUMENTS INC	Texas	NAVY	RDTE/Ships-Basic Research	43
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	50
	ATACS CORPORATION	California	NAVY	RDTE/Ships-Basic Research	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC31 (CONTINUED)					
	DCS CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	49
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Ships-Basic Research	50
	ECODYNAMICS RESEARCH ASSOC	New Mexico	NAVY	RDTE/Ships-Basic Research	50
	ELECTRONIC WARFARE ASSOCIATES	Virginia	NAVY	RDTE/Ships-Basic Research	49
	EMK TESTING COMPANY INC	New York	NAVY	RDTE/Ships-Basic Research	50
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ships-Basic Research	106
	GALAXY MICROSYSTEMS INC	California	NAVY	RDTE/Ships-Basic Research	49
	GENERAL SCIENCES INC	Penn	NAVY	RDTE/Ships-Basic Research	52
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Basic Research	99
	GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Ships-Basic Research	600
	H M TECHNOLOGY INC	Virginia	NAVY	RDTE/Ships-Basic Research	90
	HYDROGEN CONSULTANTS INC	Colorado	NAVY	RDTE/Ships-Basic Research	495
	HYPER L INCORPORATED	Illinois	NAVY	RDTE/Ships-Basic Research	50
	I A P RESEARCH INC	Ohio	NAVY	RDTE/Ships-Basic Research	49
	IKONIX INC	Virginia	NAVY	RDTE/Ships-Basic Research	50
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Ships-Basic Research	6,234
	K M S FUSION INC	Michigan	NAVY	RDTE/Ships-Basic Research	55
	L N K CORPORATION	Maryland	NAVY	RDTE/Ships-Basic Research	50
	L N R COMMUNICATIONS INC	New York	NAVY	RDTE/Ships-Basic Research	50
	LAGUNA RESEARCH LAB	California	NAVY	RDTE/Ships-Basic Research	51
	LAQUE CTR FOR CRRSION TCHNLOGY	N Carolina	NAVY	RDTE/Ships-Basic Research	763
	M SQUARE MICROTEK INC	California	NAVY	RDTE/Ships-Basic Research	49
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Ships-Basic Research	50
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC31 (CONTINUED)					
	MATERIAL & ELECTROCHEMICAL RES	Arizona	NAVY	RDTE/Ships-Basic Research	50
	ORINCON CORPORATION	California	NAVY	RDTE/Ships-Basic Research	47
	OSBORNE ALLEN ASSOCIATES	California	NAVY	RDTE/Ships-Basic Research	100
	PASKOWITZ ASSOCIATES	Virginia	NAVY	RDTE/Ships-Basic Research	212
	PERRY TECHNOLOGY CORP	Florida	NAVY	RDTE/Ships-Basic Research	48
	PHYSICAL RESEARCH INC	California	NAVY	RDTE/Ships-Basic Research	49
	PHYSICAL SCIENCES INC	Mass	NAVY	RDTE/Ships-Basic Research	49
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Ships-Basic Research	96
	PROCESSING RESEARCH INC	Virginia	NAVY	RDTE/Ships-Basic Research	105
	RADIATION SCIENCE INC	Mass	NAVY	RDTE/Ships-Basic Research	51
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Ships-Basic Research	80
	REKENTHALER TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Ships-Basic Research	50
	REMSA INC	Virginia	NAVY	RDTE/Ships-Basic Research	48
	RESEARCH APPLICATIONS INC	Texas	NAVY	RDTE/Ships-Basic Research	65
	RESEARCH OPPORTUNITIES INC	California	NAVY	RDTE/Ships-Basic Research	50
	ROSS MCNATT INC	Maryland	NAVY	RDTE/Ships-Basic Research	100
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Ships-Basic Research	62
	SCOPE INCORPORATED	Virginia	NAVY	RDTE/Ships-Basic Research	63
	SEAKAY MANAGEMENT CORPORATION	Conn	NAVY	RDTE/Ships-Basic Research	50
	SENSIS CORPORATION	New York	NAVY	RDTE/Ships-Basic Research	287
	SIGNAL PROCESSING TECHNOLOGY	California	NAVY	RDTE/Ships-Basic Research	48
	SIMULATION ENGINEERING TECH	Maryland	NAVY	RDTE/Ships-Basic Research	50
	SONALYSTS INC	Conn	NAVY	RDTE/Ships-Basic Research	100
	SPARTA INC	California	NAVY	RDTE/Ships-Basic Research	52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC31	(CONTINUED)				
	SPECTRO INC	Mass	NAVY	RDTE/Ships-Basic Research	29
	SPIRE CORPORATION	Mass	NAVY	RDTE/Ships-Basic Research	50
	STRUCTURAL COMPOSITES INC	Florida	NAVY	RDTE/Ships-Basic Research	50
	SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Ships-Basic Research	50
	SYSTEMS SUPPORT INC	Virginia	NAVY	RDTE/Ships-Basic Research	405
	THOMAS ENTERPRISES INC	Virginia	NAVY	RDTE/Ships-Basic Research	49
	TPL INC	New Mexico	NAVY	RDTE/Ships-Basic Research	49
	TRIANGLE RESEARCH & DEV CORP	N Carolina	NAVY	RDTE/Ships-Basic Research	49
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY	RDTE/Ships-Basic Research	48
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Ships-Basic Research	50
	WESTINGHOUSE ELECTRIC CORP	Ohio	ARMY	RDTE/Ships-Basic Research	1,948
	R&D TOTAL				15,131
AC32	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	624
	ANALYTIC POWER CORP	Mass	NAVY	RDTE/Ships-Exploratory Development	260
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Ships-Exploratory Development	30
	APPLIED THERMODYNAMICS SYSTEMS	Iowa	NAVY	RDTE/Ships-Exploratory Development	49
	ARTECH CORP	Virginia	NAVY	RDTE/Ships-Exploratory Development	33
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Ships-Exploratory Development	38
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	3,161
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Ships-Exploratory Development	322
	BOEING COMPANY THE	Washington	NAVY	RDTE/Ships-Exploratory Development	46
	CASDE CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	496
	CREARE INC	N.H.	NAVY	RDTE/Ships-Exploratory Development	70
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,335

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC32 (CONTINUED)					
	FMC CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	1,500
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Exploratory Development	384
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Ships-Exploratory Development	3,557
	HYDRODYNAMICS RESEARCH ASSOC	Virginia	NAVY	RDTE/Ships-Exploratory Development	232
	JOHN DEERE COMPANY	New Jersey	NAVY	RDTE/Ships-Exploratory Development	33
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Ships-Exploratory Development	51
	KINETIC SYSTEMS INC	Washington	NAVY	RDTE/Ships-Exploratory Development	31
	LOCKHEED CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	55
	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	NAVY	RDTE/Ships-Exploratory Development	60
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Exploratory Development	303
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Ships-Exploratory Development	190
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	153
	MICROALLOYING INTERNATIONAL	Texas	NAVY	RDTE/Ships-Exploratory Development	82
	NEWPORT NEWS SHPBLDNG DRYDOCK	Virginia	NAVY	RDTE/Ships-Exploratory Development	151
	ORINCON CORPORATION	California	NAVY	RDTE/Ships-Exploratory Development	382
	RESEARCH TRIANGLE INSTITUTE	N Carolina	NAVY	RDTE/Ships-Exploratory Development	80
	SANDVIK INC	Penn	NAVY	RDTE/Ships-Exploratory Development	643
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Ships-Exploratory Development	225
	SEAWARD INTERNATIONAL	Virginia	NAVY	RDTE/Ships-Exploratory Development	795
	SOCIETE GENERALE DES TAPIS SA	GERMANY, F	NAVY	RDTE/Ships-Exploratory Development	231
	SOLAR TURBINES INCORPORATED	California	NAVY	RDTE/Ships-Exploratory Development	240
	STATE OF TENNESSEE	Tennessee	NAVY	RDTE/Ships-Exploratory Development	88
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Ships-Exploratory Development	462
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Ships-Exploratory Development	250

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AC32 (CONTINUED)					
	TRACOR HYDRONAUTICS INC	Maryland	NAVY	RDTE/Ships-Exploratory Development	1,217
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Ships-Exploratory Development	99
	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Ships-Exploratory Development	51
		W Virginia	NAVY	RDTE/Ships-Exploratory Development	35
	CONTRACTOR TOTAL				86
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Ships-Exploratory Development	85
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Exploratory Development	4,424
	WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Ships-Exploratory Development	50
		Penn	NAVY	RDTE/Ships-Exploratory Development	1,586
	CONTRACTOR TOTAL				1,636
	YESHIVA UNIVERSITY	Penn	NAVY	RDTE/Ships-Exploratory Development	45
	YORK INTERNATIONAL CORPORATION	Penn	NAVY	RDTE/Ships-Exploratory Development	1,068
	R&D TOTAL				25,302
AC33	A A I CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	3,942
	ADVANCE SYSTEMS TECHNOLOGY	Georgia	NAVY	RDTE/Ships-Advanced Development	1,298
		Virginia	NAVY	RDTE/Ships-Advanced Development	1,345
	CONTRACTOR TOTAL				2,643
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Ships-Advanced Development	258
	APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Advanced Development	56
	APPLIED LEARNING INTERNATIONAL	Georgia	NAVY	RDTE/Ships-Advanced Development	3,597
		Virginia	NAVY	RDTE/Ships-Advanced Development	50
	CONTRACTOR TOTAL				3,647
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Ships-Advanced Development	105
	CASDE CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development	670

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC33 (CONTINUED)					
	COLUMBIA RESEARCH CORPORATION	Virginia	NAVY	RDTE/Ships-Advanced Development	65
	EG&G SPECIAL PROJECTS	Maryland	NAVY	RDTE/Ships-Advanced Development	1,000
		Nevada	NAVY	RDTE/Ships-Advanced Development	1,252
	CONTRACTOR TOTAL				2,252
	EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Ships-Advanced Development	30
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Ships-Advanced Development	620
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Advanced Development	30,773
	GENERAL ELECTRIC COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development	14,434
		New York	NAVY	RDTE/Ships-Advanced Development	100,622
		Ohio	NAVY	RDTE/Ships-Advanced Development	42
	CONTRACTOR TOTAL				115,098
	HALE FIRE PUMP CO	Penn	NAVY	RDTE/Ships-Advanced Development	259
	LIGHTING SCIENCES INC	Arizona	NAVY	RDTE/Ships-Advanced Development	35
	MAGNETIC BEARINGS INC	Conn	NAVY	RDTE/Ships-Advanced Development	182
	MANTECH INTERNATIONAL CORP	New Mexico	NAVY	RDTE/Ships-Advanced Development	30
		Virginia	NAVY	RDTE/Ships-Advanced Development	1,477
	CONTRACTOR TOTAL				1,507
	MINIGRAPH INC	Penn	NAVY	RDTE/Ships-Advanced Development	1,510
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Advanced Development	872
	NATIONAL STL SHPBLDING COMPANY	California	NAVY	RDTE/Ships-Advanced Development	41
	NATIVE AMERICAN CONSULTANTS	D.C.	NAVY	RDTE/Ships-Advanced Development	371
		Maryland	NAVY	RDTE/Ships-Advanced Development	485
	CONTRACTOR TOTAL				856
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Advanced Development	239

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC33 (CONTINUED)				
PENNSYLVANIA STATE UNIV INC	Penn	NAVY	RDTE/Ships-Advanced Development	\$ 49
RAYTHEON COMPANY	Mass	NAVY	RDTE/Ships-Advanced Development	300
RMCI	Virginia	NAVY	RDTE/Ships-Advanced Development	173
SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Advanced Development	814
SYSTEM PLANNING CORPORATION	California	NAVY	RDTE/Ships-Advanced Development	438
	Maryland	NAVY	RDTE/Ships-Advanced Development	75
CONTRACTOR TOTAL				513
SYSTEMS TECHNOLOGY INC	California	NAVY	RDTE/Ships-Advanced Development	452
TAYLOR DEVICES INC	New York	NAVY	RDTE/Ships-Advanced Development	49
TRANDES CORPORATION	Maryland	NAVY	RDTE/Ships-Advanced Development	784
TREADWELL CORPORATION	New Jersey	NAVY	RDTE/Ships-Advanced Development	50
UNISYS CORPORATION	New York	NAVY	RDTE/Ships-Advanced Development	7,100
UNIV OF TEXAS AT AUSTIN	Texas	NAVY	RDTE/Ships-Advanced Development	1,000
UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Ships-Advanced Development	40
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Advanced Development	5,455
WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Ships-Advanced Development	254,490
R&D TOTAL				436,929
AC34 ADVANCED COMPOSITE PRODUCTS	Conn	NAVY	RDTE/Ships-Engineering Development	474
APPLIED HYDRO ACOUSTICS RES	Maryland	NAVY	RDTE/Ships-Engineering Development	80
BELOIT CORPORATION	Michigan	ARMY	RDTE/Ships-Engineering Development	2,667
BRANTNER & ASSOCIATES INC	California	NAVY	RDTE/Ships-Engineering Development	150
DATA DESIGN LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development	2,117
DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Ships-Engineering Development	540
GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Ships-Engineering Development	75,699

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AC34	(CONTINUED)					
	CONTRACTOR TOTAL	Conn	NAVY	RDTE/Ships-Engineering Development	\$	15,918
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Ships-Engineering Development		91,617
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Ships-Engineering Development		4,250
	KOLLMORGEN CORPORATION	Conn	NAVY	RDTE/Ships-Engineering Development		1,394
	MAR INCORPORATED	Maryland	NAVY	RDTE/Ships-Engineering Development		88
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Ships-Engineering Development		57
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Engineering Development		31
	NEWPORT NEWS SHPBLDING DRYDOCK	Virginia	NAVY	RDTE/Ships-Engineering Development		530
	RAYTHEON COMPANY	Rhode Islnd	NAVY	RDTE/Ships-Engineering Development		21,622
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Ships-Engineering Development		76
	SIPPICAN INC	Mass	NAVY	RDTE/Ships-Engineering Development		160
	STEWART & STEVENSON SVCS INC	Texas	ARMY	RDTE/Ships-Engineering Development		33
	T CARROLL ASSOCIATES INC	Maryland	NAVY	RDTE/Ships-Engineering Development		2,345
	TACTICAL TRUCK CORPORATION	Michigan	ARMY	RDTE/Ships-Engineering Development		128
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Ships-Engineering Development		1,706
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Ships-Engineering Development		2,672
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Ships-Engineering Development		2,284
	UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Ships-Engineering Development		1,178
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Ships-Engineering Development		43
	USBI CO	Alabama	NAVY	RDTE/Ships-Engineering Development		98
	WYLE LABORATORIES	Virginia	NAVY	RDTE/Ships-Engineering Development		111
	R&D TOTAL					2,556
						139,007
AC35	DATA DESIGN LABORATORIES	Conn	NAVY	RDTE/Ships-Op Systems Development		339

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC35 (CONTINUED)					
	ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Ships-Op Systems Development	2,754
	GENERAL ATOMICS	California	NAVY	RDTE/Ships-Op Systems Development	667
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Ships-Op Systems Development	1,393
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Ships-Op Systems Development	277
	GEO CENTERS INC	Mass	NAVY	RDTE/Ships-Op Systems Development	149
	INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Ships-Op Systems Development	31
	KRAUSE P C & ASSOCIATES INC	Indiana	NAVY	RDTE/Ships-Op Systems Development	245
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ships-Op Systems Development	466
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Ships-Op Systems Development	91
	SOMAT CORPORATION	Penn	NAVY	RDTE/Ships-Op Systems Development	187
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Ships-Op Systems Development	200
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Ships-Op Systems Development	100
	VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Ships-Op Systems Development	334
	VITRO CORPORATION	Maryland	NAVY	RDTE/Ships-Op Systems Development	824
	R&D TOTAL				8,057
AC36	ADVANCED MECHANICAL TECHNOLOGY	Mass	NAVY	RDTE/Ships-Management & Support	50
	CBI NA CON INC	Tennessee	NAVY	RDTE/Ships-Management & Support	12,246
	CREOLE ENGINEERING SALES CO	Penn	NAVY	RDTE/Ships-Management & Support	29
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Ships-Management & Support	2,705
	HEXCEL CORPORATION	Arizona	NAVY	RDTE/Ships-Management & Support	85
	NUCLEAR COOLING INC	Michigan	NAVY	RDTE/Ships-Management & Support	36
	PRODUCTS RES & CHEMICAL CORP	California	NAVY	RDTE/Ships-Management & Support	47
	R&D TOTAL				15,198
AC41	ARMORED VHCLC TCHNLOGIES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	91

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC41 (CONTINUED)					
	FROUDE ENGINEERING INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	122
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Tank - Automotive-Basic Research	191
	GENERAL MOTORS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	107
	GONZALEZ DESIGN ENGRG COMPANY	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	1,250
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	235
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Basic Research	82
	UNION CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Basic Research	6,781
	R&D TOTAL				8,859
AC42					
	ADIABATICS INCORPORATED	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	688
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	255
	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,828
	ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	59
	AREA THERM CORPORATION	Virginia	NAVY	RDTE/Tank - Automotive-Exploratory Develop	389
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Tank - Automotive-Exploratory Develop	31-
	AUTOMOATION RESEARCH CORP	Nevada	ARMY	RDTE/Tank - Automotive-Exploratory Develop	98
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Tank - Automotive-Exploratory Develop	400
	BBN SYSTEMS & TECHNOLOGIES	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	27
	BKM INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	480
	CHENG TECHNOLOGY & SERVICES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	70
	CIM SYSTEMS INC	Texas	ARMY	RDTE/Tank - Automotive-Exploratory Develop	45
	COLSA INC	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	200
	CONTRAVES GOERZ CORPORATION	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	50
	CUMMINS ENGINE COMPANY INC	Indiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	16,677

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC42 (CONTINUED)					
	DEC DEVELOPMENT CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	48
	DELTA INFORMATION SYSTEMS	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	276
	FAILURE ANALYSIS ASSOCIATES	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	175
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Exploratory Develop	154
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	54
		NAVY	NAVY	RDTE/Tank - Automotive-Exploratory Develop	1,500
					1,554
					12,557
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	609
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
	LANDMARK MANUFACTURING CORP	Missouri	ARMY	RDTE/Tank - Automotive-Exploratory Develop	235
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	448
	MICHIGAN TECHNLGAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	108
	MICROWAVE RADIO CORP	Mass	ARMY	RDTE/Tank - Automotive-Exploratory Develop	672
	MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	375
	ODETICS INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	243
	PHOTRONICS CORPORATION	New York	ARMY	RDTE/Tank - Automotive-Exploratory Develop	45
	PHYSICS MATHEMATICS COMPUTER	New Mexico	ARMY	RDTE/Tank - Automotive-Exploratory Develop	304
	PRECISION COMBUSTION INC	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	370
	RECON & OPTICAL INC	Illinois	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	REDZONE ROBOTICS INC	Penn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
	SILICON FILMS CORP	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	34
	SOLAR TURBINES INCORPORATED	California	NAVY	RDTE/Tank - Automotive-Exploratory Develop	191
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Tank - Automotive-Exploratory Develop	90
	TECHNCLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Tank - Automotive-Exploratory Develop	

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DEPARTMENT OF DEFENSE

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC42 (CONTINUED)					
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Exploratory Develop	1,407-
	TRACOR AEROSPACE INC	Texas	ARMY	RDTE/Tank - Automotive-Exploratory Develop	58
	TRANSITIONS RESEARCH CORP	Conn	ARMY	RDTE/Tank - Automotive-Exploratory Develop	251
	TRIANGLE RESEARCH & DEV CORP	N Carolina	ARMY	RDTE/Tank - Automotive-Exploratory Develop	250
	TRW INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	262
	TSI INCORPORATED	Minnesota	ARMY	RDTE/Tank - Automotive-Exploratory Develop	307
	VIASAT INC	California	ARMY	RDTE/Tank - Automotive-Exploratory Develop	52
	WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Tank - Automotive-Exploratory Develop	173
	R&D TOTAL				40,471
AC43					
	ALLIED SIGNAL AEROSPACE CO	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	1,463
	AM GENERAL CORPORATION	Texas	ARMY	RDTE/Tank - Automotive-Advanced Developmen	450
	ARMORED VHCL TECHNIQUES ASSO	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	11,435
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	15,729
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Tank - Automotive-Advanced Developmen	36-
	FMC CORPORATION	Alabama	ARMY	RDTE/Tank - Automotive-Advanced Developmen	898
	CONTRACTOR TOTAL	California	ARMY	RDTE/Tank - Automotive-Advanced Developmen	10,118
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	11,016
	GENERAL MOTORS CORPORATION	Indiana	ARMY	RDTE/Tank - Automotive-Advanced Developmen	718
	CONTRACTOR TOTAL	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Developmen	2,042
	HANSEN ENGINE CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Developmen	50
	LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Tank - Automotive-Advanced Developmen	2,092
	MATERIALS MODIFICATION INC	Virginia	ARMY	RDTE/Tank - Automotive-Advanced Developmen	557
					747
					128

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC43 (CONTINUED)					
	MICHIGAN TCHNLGAL UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	1,345
	MTS SYSTEMS CORPORATION	Minnesota	ARMY	RDTE/Tank - Automotive-Advanced Development	172
	TELEDYNE INDUSTRIES INC	Michigan	ARMY	RDTE/Tank - Automotive-Advanced Development	2,458
	THE ANALYTIC SCIENCE CORP	Mass	ARMY	RDTE/Tank - Automotive-Advanced Development	340
	VICKERS DEFENSE SYSTEMS	UNITED KIN	ARMY	RDTE/Tank - Automotive-Advanced Development	500
	WILLIAMS INTERNATIONAL CORP	GERMANY, F	ARMY	RDTE/Tank - Automotive-Advanced Development	639
	R&D TOTAL				49,751
AC44	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	207-
	BUNDESAMT FUER WEHRTECHNIK	GERMANY, F	ARMY	RDTE/Tank - Automotive-Engr Development	96
	CASDE CORPORATION	California	NAVY	RDTE/Tank - Automotive-Engr Development	1,400
	CHAMBERLAIN MANUFACTURING CORP	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	110
	CONTRACTOR TOTAL	Maryland	ARMY	RDTE/Tank - Automotive-Engr Development	246
					356
	FMC CORPORATION	California	ARMY	RDTE/Tank - Automotive-Engr Development	42,188
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Engr Development	162,730
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Tank - Automotive-Engr Development	212
		Vermont	ARMY	RDTE/Tank - Automotive-Engr Development	5,012
	CONTRACTOR TOTAL				5,224
	LORAL CORPORATION	Arizona	ARMY	RDTE/Tank - Automotive-Engr Development	332
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Engr Development	853
	PECO ENTERPRISES INC	Iowa	ARMY	RDTE/Tank - Automotive-Engr Development	103-
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Tank - Automotive-Engr Development	301
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Tank - Automotive-Engr Development	41
	ZF INDUSTRIES INC	GERMANY, F	ARMY	RDTE/Tank - Automotive-Engr Development	43

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				
AC45	AM GENERAL CORPORATION	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	213,254
	AVCO CORPORATION	Conn	ARMY	RDTE/Tank - Automotive-Op Systems Developm	2,498
	BOEING COMPANY THE	Texas	NAVY	RDTE/Tank - Automotive-Op Systems Developm	490
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Tank - Automotive-Op Systems Developm	36
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Tank - Automotive-Op Systems Developm	40
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	330
	VSE CORPORATION	Virginia	ARMY	RDTE/Tank - Automotive-Op Systems Developm	149
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Tank - Automotive-Op Systems Developm	2,908
	R&D TOTAL				75
AC46	TRW INC	California	ARMY	RDTE/Tank - Automotive-Management & Suppor	6,526
ACS1	ADVANCED TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Basic Research	6,411
	AT&T TECHNOLOGIES INC	Penn	USAF	RDTE/Weapons-Basic Research	200
	BRUNSWICK CORPORATION	California	ARMY	RDTE/Weapons-Basic Research	700
	CHAMBERLAIN MANUFACTURING CORP	Maine	USAF	RDTE/Weapons-Basic Research	260
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Weapons-Basic Research	474
	ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Weapons-Basic Research	51
	GENERAL DYNAMICS CORPORATION	Virginia	NAVY	RDTE/Weapons-Basic Research	1,008
	HONEYWELL INC	Minnesota	USAF	RDTE/Weapons-Basic Research	769
	LANDEC LABS INC	California	USAF	RDTE/Weapons-Basic Research	56
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Weapons-Basic Research	50
	METRON INC	Penn	NAVY	RDTE/Weapons-Basic Research	183
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Basic Research	444
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Basic Research	34
	NORDEN SYSTEMS INC	New York	NAVY	RDTE/Weapons-Basic Research	126
					113

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC51 (CONTINUED)					
	ODETICS INC	California	ARMY	RDTE/Weapons-Basic Research	2,072
	OPTICS ONE INC	California	USAF	RDTE/Weapons-Basic Research	44
	PECKHAM ENGINEERING & TOOL	California	USAF	RDTE/Weapons-Basic Research	49
	PRESEARCH INCORPORATED	Virginia	NAVY	RDTE/Weapons-Basic Research	1,312
	REKENTHALER TECHNOLOGY ASSOC	Maryland	USAF	RDTE/Weapons-Basic Research	50
	REMINGTON ARMS COMPANY INC	New York	ARMY	RDTE/Weapons-Basic Research	3,787
	ROCKWELL INTERNATIONAL CORP	Georgia	ARMY	RDTE/Weapons-Basic Research	844
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Basic Research	100
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Basic Research	100
	SAPHIKON INC	N.H.	NAVY	RDTE/Weapons-Basic Research	189
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Weapons-Basic Research	604
	SPARTA INC	Alabama	ARMY	RDTE/Weapons-Basic Research	97
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Basic Research	576
	SQM TECHNOLOGY INC	California	NAVY	RDTE/Weapons-Basic Research	448
	SYNDETIX INC	New Mexico	USAF	RDTE/Weapons-Basic Research	5,394
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Basic Research	1,326
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Weapons-Basic Research	214-
	UNIVERSITY OF VIRGINIA	Texas	ARMY	RDTE/Weapons-Basic Research	1,000
	R&D TOTAL				22,246
AC52	A A I CORPORATION	Maryland	ARMY	RDTE/Weapons-Exploratory Development	73
			USAF	RDTE/Weapons-Exploratory Development	101
STATE TOTAL					
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	180
	ARES INC	Ohio	ARMY	RDTE/Weapons-Exploratory Development	59

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	AT&T TECHNOLOGIES INC	Penn	USAF	RDTE/Weapons-Exploratory Development	3,286
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Weapons-Exploratory Development	60
	AVCO RESEARCH LABORATORY INC	Mass	ARMY	RDTE/Weapons-Exploratory Development	596
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Weapons-Exploratory Development	844
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	705
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Weapons-Exploratory Development	50
	BELLENA SYSTEMS CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	30
	BOEING COMPUTER SERVICES	Washington	USAF	RDTE/Weapons-Exploratory Development	145
	C F HOLDINGS CORP	Conn	ARMY	RDTE/Weapons-Exploratory Development	73-
	CALIFRNTA MNTIONS DEV COMPANY	California	ARMY	RDTE/Weapons-Exploratory Development	620
	COMPUTATIONAL MECHANICS CO	Tennessee	ARMY	RDTE/Weapons-Exploratory Development	50
	DEEP HOLE SPECIALISTS INC	Ohio	ARMY	RDTE/Weapons-Exploratory Development	39
	ELECTROMAGNETIC LAUNCH RES	Mass	ARMY	RDTE/Weapons-Exploratory Development	736
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Exploratory Development	326
	FORD AEROSPACE CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	27
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Exploratory Development	540
	GENERAL ELECTRIC COMPANY	Vermont	USAF	RDTE/Weapons-Exploratory Development	487
	HECKLER & KOCH INC	GERMANY, F	ARMY	RDTE/Weapons-Exploratory Development	68
	HI SHEAR CORPORATION	Nevada	NAVY	RDTE/Weapons-Exploratory Development	46-
	HONEYWELL INC	Minnesota	ARMY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	2,954 452
		STATE TOTAL			3,406
	JAYCOR	California	USAF	RDTE/Weapons-Exploratory Development	80
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Weapons-Exploratory Development	700-

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC52 (CONTINUED)					
	KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	\$ 496
	LORAL CORPORATION	Arizona	USAF	RDTE/Weapons-Exploratory Development	2,530
	MARTIN MARIETTA CORPORATION	Florida	ARMY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	1,800 54
		STATE TOTAL			1,854
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Exploratory Development	5,390
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	586
	CONTRACTOR TOTAL				5,976
	MCDONNELL DOUGLAS CORPORATION	Arizona	ARMY	RDTE/Weapons-Exploratory Development	1,752
	*CDONNELL DOUGLAS HLCPTR CO	Arizona	ARMY	RDTE/Weapons-Exploratory Development	48
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Exploratory Development	151
		New Mexico	ARMY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	91 230
	CONTRACTOR TOTAL				321
	MOLECULAR TECH INC	Mass	USAF	RDTE/Weapons-Exploratory Development	472
	MOTOROLA INC	Arizona	USAF	RDTE/Weapons-Exploratory Development	491
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Exploratory Development	1,297
	NEW MEXICO INST OF MIN TECHNLGY	New Mexico	NAVY	RDTE/Weapons-Exploratory Development	1,038
	ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Exploratory Development	553
	ORLANDO TECHNOLOGY INC	Florida	NAVY USAF	RDTE/Weapons-Exploratory Development RDTE/Weapons-Exploratory Development	67 82 347
		STATE TOTAL			429
	P D I TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	47
	PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDIL/Weapons-Exploratory Development	70

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC52 (CONTINUED)					
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Weapons-Exploratory Development	\$ 108
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Weapons-Exploratory Development	79
	PULSE SCIENCES INC	California	NAVY	RDTE/Weapons-Exploratory Development	4,324
	QUANTIC INDUSTRIES INC	California	USAF	RDTE/Weapons-Exploratory Development	431
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Exploratory Development	225
		Colorado	USAF	RDTE/Weapons-Exploratory Development	200
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	2,755
	CONTRACTOR TOTAL				3,180
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Weapons-Exploratory Development	189
			USAF	RDTE/Weapons-Exploratory Development	4,052
	STATE TOTAL				4,241
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Weapons-Exploratory Development	50
		New Mexico	USAF	RDTE/Weapons-Exploratory Development	435
	CONTRACTOR TOTAL				485
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Exploratory Development	153
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Exploratory Development	672
	SPARTA INC	California	ARMY	RDTE/Weapons-Exploratory Development	183
	STEYR DAIMLER PUCH AG	AUSTRIA	ARMY	RDTE/Weapons-Exploratory Development	20
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Weapons-Exploratory Development	363
	SYSTEMS SUPPORT INC	Virginia	NAVY	RDTE/Weapons-Exploratory Development	50
	TROUND INTERNATIONAL INC	New Jersey	NAVY	RDTE/Weapons-Exploratory Development	699
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Weapons-Exploratory Development	850
	UNIVERSITY OF IDAHO	Idaho	USAF	RDTE/Weapons-Exploratory Development	40
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Weapons-Exploratory Development	42

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC52 (CONTINUED)					
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Exploratory Development	100
	UNIVERSITY OF NEW ORLEANS	Louisiana	USAF	RDTE/Weapons-Exploratory Development	75
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Weapons-Exploratory Development	60
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Weapons-Exploratory Development	450
	VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Weapons-Exploratory Development	531
	R&D TOTAL				45,946
AC53					
	ACUREX CORPORATION	Ohio	USAF	RDTE/Weapons-Advanced Development	1,022
	ADAPTIVE OPTICS ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	249
	ADVANCED TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	107
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	2,985
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Weapons-Advanced Development	374
	AT&T TECHNOLOGIES INC	Penn	USAF	RDTE/Weapons-Advanced Development	262
	ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Weapons-Advanced Development	150
	AVCO RESEARCH LABORATORY INC	Mass	USAF	RDTE/Weapons-Advanced Development	3,338
	BALL CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	10,772
	CONTRACTOR TOTAL	New Mexico	USAF	RDTE/Weapons-Advanced Development	1,163
					11,935
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	4,718
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Weapons-Advanced Development	220
	BOEING COMPANY THE	Alabama	USAF	RDTE/Weapons-Advanced Development	379
		Washington	NAVY	RDTE/Weapons-Advanced Development	61,030
		USAF	RDTE/Weapons-Advanced Development	1,780	
	STATE TOTAL				62,810
	CONTRACTOR TOTAL				63,189

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC53 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	California	NAVY	RDTE/Weapons-Advanced Development	\$ 268
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	29
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Weapons-Advanced Development	312
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	7,773
	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Weapons-Advanced Development	6,880
	CORNING INC	New York	USAF	RDTE/Weapons-Advanced Development	325
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	50-
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Weapons-Advanced Development	792
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Weapons-Advanced Development	2,043
	ELECTRO OPTEK CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	521
	ELECTROMAGNETIC SCIENCES INC	Georgia	USAF	RDTE/Weapons-Advanced Development	277
	EPSILON LAMBDA ELECTRONICS	Illinois	USAF	RDTE/Weapons-Advanced Development	494
	FMC CORPORATION	Minnesota	NAVY	RDTE/Weapons-Advanced Development	1,050
	FORD AEROSPACE CORPORATION	California	NAVY	RDTE/Weapons-Advanced Development	5,064
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Weapons-Advanced Development	1,554
	GCD ASSOCIATES	New Mexico	USAF	RDTE/Weapons-Advanced Development	200
	GENERAL ATOMICS	California	USAF	RDTE/Weapons-Advanced Development	1,127
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	450
		Michigan	NAVY	RDTE/Weapons-Advanced Development	1,357
	CONTRACTOR TOTAL				1,807
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Weapons-Advanced Development	2,335
		Penn	USAF	RDTE/Weapons-Advanced Development	456-
	CONTRACTOR TOTAL				1,879
	HARRIS CORPORATION	Florida	ARMY	RDTE/Weapons-Advanced Development	1,978
	HERCULES INCORPORATED	Utah	USAF	RDTE/Weapons-Advanced Development	27

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC53 (CONTINUED)					
	HONEYWELL INC	Arizona	USAF	RDTE/Weapons-Advanced Development	715
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Weapons-Advanced Development	5,136
			USAF	RDTE/Weapons-Advanced Development	8,098
		STATE TOTAL			13,234
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Weapons-Advanced Development	75
	IRT CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	3,432
	KAMAN CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	17,760
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	1,500
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Weapons-Advanced Development	600
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Weapons-Advanced Development	4,184
		New Mexico	USAF	RDTE/Weapons-Advanced Development	3,206
	CONTRACTOR TOTAL				7,390
	LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Advanced Development	500
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Weapons-Advanced Development	1,472
		Florida	ARMY	RDTE/Weapons-Advanced Development	7,904
		New Mexico	USAF	RDTE/Weapons-Advanced Development	100-
	CONTRACTOR TOTAL				9,276
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Advanced Development	400-
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Weapons-Advanced Development	5,147
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Advanced Development	270
		New Mexico	USAF	RDTE/Weapons-Advanced Development	2,618
	CONTRACTOR TOTAL				2,888
	MOTOROLA INC	Arizona	ARMY	RDTE/Weapons-Advanced Development	164
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Advanced Development	72

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC53 (CONTINUED)					
	ORLANDO TECHNOLOGY INC	Florida	NAVY	RDTE/Weapons-Advanced Development	\$ 185
	P D I TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Advanced Development	180
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Weapons-Advanced Development	3,219
	POWER SPECTRA INC	California	USAF	RDTE/Weapons-Advanced Development	3,819
	R & D ASSOCIATES	California	USAF	RDTE/Weapons-Advanced Development	160
		New Mexico	USAF	RDTE/Weapons-Advanced Development	8,719
	CONTRACTOR TOTAL				8,879
	RIVERSIDE RESEARCH INSTITUTE	New York	USAF	RDTE/Weapons-Advanced Development	82
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Weapons-Advanced Development	3,133
		New Mexico	USAF	RDTE/Weapons-Advanced Development	150
	CONTRACTOR TOTAL				3,283
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Weapons-Advanced Development	2,917
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Advanced Development	2,345
	SCHAFFER W J ASSOCIATES INC	Mass	USAF	RDTE/Weapons-Advanced Development	3,639
	SCHOTT GLASS TECHNOLOGIES INC	GERMANY, F	USAF	RDTE/Weapons-Advanced Development	185
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Advanced Development	475
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Advanced Development	358
	SPARTA INC	California	USAF	RDTE/Weapons-Advanced Development	266
	SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Weapons-Advanced Development	1,499
	SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Weapons-Advanced Development	132
	SPERRY FLIGHT SYS-HONEYWELL IN	Arizona	USAF	RDTE/Weapons-Advanced Development	51
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Weapons-Advanced Development	28
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Weapons-Advanced Development	2,000
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Weapons-Advanced Development	16,240

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC53 (CONTINUED)					
	TEXTRON INC	New York	USAF	RDTE/Weapons-Advanced Development	\$ 130
	TRW INC	California	ARMY	RDTE/Weapons-Advanced Development	3,273
			USAF	RDTE/Weapons-Advanced Development	23,877
	STATE TOTAL				27,150
		New Mexico	USAF	RDTE/Weapons-Advanced Development	150
	CONTRACTOR TOTAL				27,300
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Weapons-Advanced Development	2,825
		Florida	USAF	RDTE/Weapons-Advanced Development	3,060
					5,885
	CONTRACTOR TOTAL				2,227
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Weapons-Advanced Development	676
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Weapons-Advanced Development	70
	UNIVERSITY OF NEW MEXICO	New Mexico	USAF	RDTE/Weapons-Advanced Development	271,322
	R&D TOTAL				63-
AC54	ACCURTRON TL & INSTR COMPANY	Virginia	ARMY	RDTE/Weapons-Engineering Development	10,225
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	150
	AUBURN UNIVERSITY	Alabama	USAF	RDTE/Weapons-Engineering Development	129
	AVCO CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	20,375
		Mass	USAF	RDTE/Weapons-Engineering Development	20,504
	CONTRACTOR TOTAL				5,048
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Engineering Development	5,483
	BICOASTAL CORPORATION	California	NAVY	RDTE/Weapons-Engineering Development	83
	BOOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	9,800
	CHAMBERLAIN MANUFACTURING CORP	Iowa	NAVY	RDTE/Weapons-Engineering Development	1,700
	CONTROL DATA CANADA LTD	CANADA	ARMY	RDTE/Weapons-Engineering Development	

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
ACS4 (CONTINUED)				
DYNAMAC CORPORATION	Maryland	NAVY	RDTE/Weapons-Engineering Development	512
ENTEK INC	New Mexico	USAF	RDTE/Weapons-Engineering Development	78
FRONTIER ENGINEERING INC	California	NAVY	RDTE/Weapons-Engineering Development	29
GENCORP INC	Florida	USAF	RDTE/Weapons-Engineering Development	299
GENERAL DYNAMICS CORPORATION	Arkansas	NAVY	RDTE/Weapons-Engineering Development	3,850
	California	NAVY	RDTE/Weapons-Engineering Development	5,675
		USAF	RDTE/Weapons-Engineering Development	7,381
				13,056
STATE TOTAL				
	Texas	USAF	RDTE/Weapons-Engineering Development	2,169
CONTRACTOR TOTAL				
GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Weapons-Engineering Development	19,075
HARSCO CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development	3,000
HONEYWELL INC	California	NAVY	RDTE/Weapons-Engineering Development	69,471
	Minnesota	NAVY	RDTE/Weapons-Engineering Development	3,581
				184,314
				187,895
CONTRACTOR TOTAL				
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Weapons-Engineering Development	232,275
KAMAN SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Engineering Development	1,570
LEAR ASTRONICS CORP	California	USAF	RDTE/Weapons-Engineering Development	531
LORAL CORPORATION	Ohio	NAVY	RDTE/Weapons-Engineering Development	3,931
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Weapons-Engineering Development	78
MARTIN MARIETTA WESTNGHSE JV	Florida	ARMY	RDTE/Weapons-Engineering Development	72,430
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Engineering Development	456
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Engineering Development	2,109
ORION INTL TECHNOLOGIES	New Mexico	USAF	RDTE/Weapons-Engineering Development	286

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC54 (CONTINUED)

PACER SYSTEMS INC	Florida	NAVY	RDTE/Weapons-Engineering Development	\$	2,813
RAM SYS GMBH	GERMANY, F	NAVY	RDTE/Weapons-Engineering Development		50,824
SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Engineering Development		908
SPARTON CORPORATION	Michigan	NAVY	RDTE/Weapons-Engineering Development		4,010
ST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Weapons-Engineering Development		97
SYSTEMS ENGINEERING INTL	California	NAVY	RDTE/Weapons-Engineering Development		135
T S C INC	Maryland	NAVY	RDTE/Weapons-Engineering Development		71
TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Engineering Development		35-
TECOLOTE RESEARCH INC	Virginia	NAVY	RDTE/Weapons-Engineering Development		93
THE ANALYTIC SCIENCE CORP	Florida	USAF	RDTE/Weapons-Engineering Development		3,251
TRW INC	New Mexico	USAF	RDTE/Weapons-Engineering Development		34
UNITED INTERNATIONAL ENGRG	New Mexico	USAF	RDTE/Weapons-Engineering Development		3,708
WCI HOLDINGS CORPORATION	Penn	ARMY	RDTE/Weapons-Engineering Development		320
WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Weapons-Engineering Development		329
	Ohio	NAVY	RDTE/Weapons-Engineering Development		116,481
					116,810
					829,994
CONTRACTOR TOTAL					2,076
R&D TOTAL					75
AC55 ADVANCED TECHNOLOGY INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		1,470
ARGO TECH CORPORATION	Ohio	NAVY	RDTE/Weapons-Operational Systems Developme		223
AVCO CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme		820
BAIRD CORP	Mass	USAF	RDTE/Weapons-Operational Systems Developme		907
BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		443
BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		
BDOZ ALLEN & HAMILTON INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme		

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC55 (CONTINUED)					
	CADILLAC GAGE TEXTRON INC	Michigan	ARMY	RDTE/Weapons-Operational Systems Developme	271
	COMPUTER SCIENCES CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	77
	CORREA ENTERPRISES INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	414
	ENTEK INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	118
	ERIL RESEARCH INC	California	USAF	RDTE/Weapons-Operational Systems Developme	45
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Weapons-Operational Systems Developme	37
	HONEYWELL INC	New Mexico	ARMY	RDTE/Weapons-Operational Systems Developme	261
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Weapons-Operational Systems Developme	117
	HUNTING ENGINEERING LTD	UNITED KIN	USAF	RDTE/Weapons-Operational Systems Developme	456
	KTECH CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	29
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Weapons-Operational Systems Developme	40
	MISSION RESEARCH CORPORATION	California	USAF	RDTE/Weapons-Operational Systems Developme	871
	N T L INC	New York	NAVY	RDTE/Weapons-Operational Systems Developme	489
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	2,298
	OKLAHOMA STATE UNIVERSITY	Florida	USAF	RDTE/Weapons-Operational Systems Developme	1,817
	ROCKWELL INTERNATIONAL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	230
	S SYSTEMS CORPORATION	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	236
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	106
	SCIENCE APPLICATIONS INTL CORP	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	4,715
	SYNETIX INC	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	1,386
	TECH REPS INCORPORATED	New Mexico	USAF	RDTE/Weapons-Operational Systems Developme	172
	TRACOR FLIGHT SYSTEMS INC	California	NAVY	RDTE/Weapons-Operational Systems Developme	503
	R&D TOTAL				20,702
AC56	ADVANCED LSR SYSTEMS TECHNOLOGY	Florida	USAF	RDTE/Weapons-Management & Support	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC58 (CONTINUED)	ANTRO PIX CORPORATION	Texas	USAF	RDTE/Weapons-Management & Support	252
	APTEK INC	Colorado	USAF	RDTE/Weapons-Management & Support	44
	BDM INTERNATIONAL INC	New Mexico	USAF	RDTE/Weapons-Management & Support	200
	BDM MANAGEMENT SERVICES CO	New Mexico	USAF	RDTE/Weapons-Management & Support	263
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Weapons-Management & Support	100
	CADILLAC GAGE TEXTRON INC	Maryland	ARMY	RDTE/Weapons-Management & Support	123
	COLORADO RESEARCH DEVELOPMENT	Colorado	USAF	RDTE/Weapons-Management & Support	50
	CSA ENGINEERING INC	California	USAF	RDTE/Weapons-Management & Support	50
	DEFENSE TECHNOLOGY INC	Virginia	NAVY	RDTE/Weapons-Management & Support	123
	DESIGN ENGINEERING INC	New Mexico	USAF	RDTE/Weapons-Management & Support	92
	DEVANEY A J ASSOC	Mass	USAF	RDTE/Weapons-Management & Support	43
	DISPLAYTECH INC	Colorado	USAF	RDTE/Weapons-Management & Support	210
	EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Weapons-Management & Support	134
	FOSTER MILLER INC	Mass	NAVY	RDTE/Weapons-Management & Support	59
	KACHINA TECH INC	New Mexico	USAF	RDTE/Weapons-Management & Support	48
	LOCKHEED TECHNICAL SERVICES CO	California	NAVY	RDTE/Weapons-Management & Support	418
	MEGADYNE INC	Virginia	USAF	RDTE/Weapons-Management & Support	50
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Weapons-Management & Support	150
	MIDWEST RESEARCH TECHNOLOGIES	Wisconsin	USAF	RDTE/Weapons-Management & Support	52
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Weapons-Management & Support	523
	PDA ENGINEERING	California	NAVY	RDTE/Weapons-Management & Support	70
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Weapons-Management & Support	230
	PLAUR CORP	S Carolina	USAF	RDTE/Weapons-Management & Support	50
	POLYMER TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Weapons-Management & Support	78

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC56 (CONTINUED)					
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Weapons-Management & Support	\$ 180
	TALANDIC RESEARCH CORPORATION	Arizona	USAF	RDTE/Weapons-Management & Support	200
	THE ANALYTIC SCIENCE CORP	Florida	USAF	RDTE/Weapons-Management & Support	399
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Weapons-Management & Support	55
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Weapons-Management & Support	1,583
	VITRO CORPORATION	Maine	NAVY	RDTE/Weapons-Management & Support	31-
		Virginia	NAVY	RDTE/Weapons-Management & Support	3,355
	CONTRACTOR TOTAL				3,324
	VOSS SCIENTIFIC	New Mexico	USAF	RDTE/Weapons-Management & Support	412
	R&D TOTAL				9,614
AC61	ADVANCED COMMUNICATONS SYSTEMS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	337
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Basic	392
	ADVANCED FIBEROPTICS CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	30
	ADVEC CORP	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	339
	ALABAMA CRYOGENIC ENGINEERING	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic	61
	AMHERST SYSTEMS INC	New York	USAF	RDTE/Electronics & Communication Eq-Basic	48
	ANACAPA SCIENCES INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	210
	ANALYTICS INCORPORATED	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Basic RDTE/Electronics & Communication Eq-Basic	219 493
	STATE TOTAL				712
	ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Basic	350
	ASTRON CORPORATION	Virginia	ARMY NAVY	RDTE/Electronics & Communication Eq-Basic RDTE/Electronics & Communication Eq-Basic	50 74
	STATE TOTAL				124

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AC61 (CONTINUED)					
	AT&T TECHNOLOGIES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	31
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Basic	1,601
	CONTRACTOR TOTAL				1,632
	ATLANTIC AEROSPACE ELECTRONICS	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	1,280
	AVCO RESEARCH LABORATORY INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	300
	AVTEC SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	210
	BALL COMMUNICATION SYSTEMS	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	155
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,768
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	310
	BREHN CORP	New Jersey	USAF	RDTE/Electronics & Communication Eq-Basic	50
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	92
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Basic	67
	CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	175
	CHARLES RIVER ANALYTICS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	CLEMSON UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	109
	COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	1,393
	COMPUTATIONAL ENGINEERING INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	97
	COMPUTER SCIENCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	274
	COPROCESSOR CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	72
	CRYSTALLUME	California	ARMY	RDTE/Electronics & Communication Eq-Basic	64
		USAF	RDTE/Electronics & Communication Eq-Basic	52	
	STATE TOTAL				116
	DATA SYSTEMS ANALYSTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	198
	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Basic	50

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AC61 (CONTINUED)					
	DIGITAL RADIO CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	603
	DYMAFLOW INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	96
	E E V INC	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	25
	E SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	900
	EG&G INC	Nevada	USAF	RDTE/Electronics & Communication Eq-Basic	2,411
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Basic	200
	ELECTRO RADIATION INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	184
	ELECTROMAGNETIC APPLICATIONS	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	51
	ELECTROSPACE SYSTEMS INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	155
	ENERGY SCIENCE LABORATORIES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	299
	EXPERTSOFT	California	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	46
	FAIRCHILD INDUSTRIES INC	D.C.	NAVY	RDTE/Electronics & Communication Eq-Basic	112
	FALON INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	69
	FEMME COMP INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	198
	FERMIONICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	1,012
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	471
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	63
	FRACTURE ANALYSIS CONSULTANTS	New York	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	GAERTNER W W RESEARCH INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	148
	GALAXY MICROSYSTEMS INC	Texas	USAF	RDTE/Electronics & Communication Eq-Basic	48
	GENERAL NETWORK CORP	Conn	ARMY	RDTE/Electronics & Communication Eq-Basic	218
	GENERAL SCIENCES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Basic	196

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AC61 (CONTINUED)					
	GENISYS RESEARCH & DEVELOPMENT	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	80
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,504
	GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	260
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	249
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Basic	567
			NAVY	RDTE/Electronics & Communication Eq-Basic	110
	STATE TOTAL				677
	II VI INCORPORATED	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	117
	INFORMATION SYSTEMS LABS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	51
	INFORMTION TCHNLOGY APPLCTONS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	INNOVATIVE TECHNOLOGY ASSOC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	254
	INTEGRATED SOFTWARE INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	225
	INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	330
	IRI INTERNATIONAL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	200
	ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Basic	900
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	27,437
	KTECH CORPORATION	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	L J F CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	349
	L N K CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	LASER SCIENCE INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	559
	LASER TECHNOLOGY ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	100
	LICA SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	350

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	LOGI TECH ENGINEERING	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	MAC AULAY BROWN INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	58
	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	USAF	RDTE/Electronics & Communication Eq-Basic	3,196
	MALIBU RESEARCH ASSOCIATES	California	ARMY	RDTE/Electronics & Communication Eq-Basic	115
			USAF	RDTE/Electronics & Communication Eq-Basic	47
	STATE TOTAL				162
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	570
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Basic	211
	CONTRACTOR TOTAL				781
	MICROELECTRONICS	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	197
	MICROTRONICS ASSOCIATES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Basic	152
	MIRAGE SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	46
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	123
	MYRIAS COMPUTER CORP	New Mexico	USAF	RDTE/Electronics & Communication Eq-Basic	100
	NAVSYS CORP	Colorado	USAF	RDTE/Electronics & Communication Eq-Basic	328
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	100
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Electronics & Communication Eq-Basic	194
	OMNI ANALYSIS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	499
	ONTAR CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	ORTEL CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	280
	PACIFIC SIERRA RESEARCH CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Basic	97
	POLATOMIC INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC61	(CONTINUED)				
	PROG DEV CORP OF SCARSDALE INC	New York	USAF	RDTE/Electronics & Communication Eq-Basic	\$ 200
	PROGRAMMING ENVIRONMENTS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	32
	Q DOT INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	RACAL COMMUNICATIONS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Basic	164
	RADIATION MONITORING DEVICES	Mass	ARMY	RDTE/Electronics & Communication Eq-Basic	81
	RALCON	Utah	ARMY	RDTE/Electronics & Communication Eq-Basic	54
	RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Basic	200
		Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	20,746
	CONTRACTOR TOTAL				20,946
	REKENTHALER TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	RF MICROSYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	713
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Basic	1,026
		Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	303
	CONTRACTOR TOTAL				1,329
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Basic	925
	SAN DIEGO SEMICONDUCTORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	60
	SANDERS & AEL JV	N.H.	ARMY	RDTE/Electronics & Communication Eq-Basic	20,869
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	50
			USAF	RDTE/Electronics & Communication Eq-Basic	620
	STATE TOTAL				670
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	1,839
			NAVY	RDTE/Electronics & Communication Eq-Basic	121
	STATE TOTAL				1,960
	SEAY THOMAS S INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	250
	SENSCI CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Basic	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	SIGNAL SCIENCE LTD	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Basic	36
	SIGNATRON INC	Mass	USAF	RDTE/Electronics & Communication Eq-Basic	355
	SOFTWARE CONSULTANT INTL LTD	Washington	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	269
	SPARTA INC	California	ARMY	RDTE/Electronics & Communication Eq-Basic	310
		NAVY	RDTE/Electronics & Communication Eq-Basic	535	
	STATE TOTAL				845
	CONTRACTOR TOTAL				1,348
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	2,193
	SPECTRUM MANAGEMENT GROUP	Texas	ARMY	RDTE/Electronics & Communication Eq-Basic	48
	SPIRE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Basic	213
	SPRINT INTL COMMUN CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Basic	680
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Basic	40
	SRS TECHNOLOGIES	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	SYNETICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Basic	50
	SYSTEM DYNAMICS INTERNATIONAL	Florida	ARMY	RDTE/Electronics & Communication Eq-Basic	212
	TEC MASTERS INC	Alabama	ARMY	RDTE/Electronics & Communication Eq-Basic	49
	TECHNICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	44
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Basic	72
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	300
	THE ANALYTIC SCIENCE CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Basic	46
	TRI TESSCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	130
	TRUSTED INFORMATION SYSTEMS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	TRW INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	297

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC61 (CONTINUED)					
	TRYMER COMPANY THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	481
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Electronics & Communication Eq-Basic	474
	UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Electronics & Communication Eq-Basic	451
	UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	280
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Electronics & Communication Eq-Basic	62
	UNIVERSITY OF STHERN CLFORNIA	California	USAF	RDTE/Electronics & Communication Eq-Basic	5,172
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Basic	25,454
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Basic	21,709
	VENTANA SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Basic	410
	VHG LABS INC	N.H.	ARMY	RDTE/Electronics & Communication Eq-Basic	300
	VISTA RESEARCH CORPORATION	Arizona	ARMY	RDTE/Electronics & Communication Eq-Basic	163
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Basic	2,599
	WATKINS JOHNSON COMPANY	California	USAF	RDTE/Electronics & Communication Eq-Basic	150
	WOOLLAM J A CO	Nebraska	USAF	RDTE/Electronics & Communication Eq-Basic	50
	XEROX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Basic	52
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Basic	50
	R&D TOTAL				171,051
AC62 2 G ENTERPRISES					
	A A I CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	337
	A T & T	Maryland	USAF	RDTE/Electronics & Communication Eq-Explor	464
	ABACUS PROGRAMMING CORPORATION	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	600
	ACCURATE INFORMATION SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Explor	47
	ADROIT SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	118
	ADVANCED ACOUSTICAL CONCEPTS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	255
		New York	NAVY	RDTE/Electronics & Communication Eq-Explor	101

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AC62 (CONTINUED)					
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,448
	AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	351
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	289
	ALLIED SIGNAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	259
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	180
	CONTRACTOR TOTAL				439
	ALTUS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	AMERICAN POWER JET CO INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	496
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Explor	29
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Electronics & Communication Eq-Explor	3,715
	APPLIED SOLAR ENERGY CORP	California	NAVY	RDTE/Electronics & Communication Eq-Explor	348
	ASTRON CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	129
			NAVY	RDTE/Electronics & Communication Eq-Explor	107
	STATE TOTAL				236
	AT&T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	59
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	52
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	70
	BALL CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	241
	BATTERY INTERNATIONAL INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	197
	BELL COMMUNICATIONS RESEARCH	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	620
	BISTA RESEARCH INC	S Carolina	NAVY	RDTE/Electronics & Communication Eq-Explor	217
	BOEING AEROSPACE & ELECTRONICS	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	147
	BOEING COMPANY THE	Washington	ARMY	RDTE/Electronics & Communication Eq-Explor	100
		USAF		RDTE/Electronics & Communication Eq-Explor	683
	STATE TOTAL				783

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AC62 (CONTINUED)					
	BOLT BERANEK & NEWMAN INC	Mass	ARMY USAF	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	\$ 11,161 600
		STATE TOTAL			11,761
	BRUNSWICK CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	27
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor	65
	CABLE & COMPUTER TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,979
	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,591
	CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Electronics & Communication Eq-Explor	325
	CHANG INDUSTRY INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	475
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Electronics & Communication Eq-Explor	496
	COMBUSTION ENGINEERING INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	61
	COMMUNICATIONS SATELLITE CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	296
	COMPUTER AIDED MFG INTL	Texas	USAF	RDTE/Electronics & Communication Eq-Explor	30
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,469
	CORTLAND CABLE COMPANY INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	248
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	2,033
	DCS CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	362
	DE LORME PUBLISHING COMPANY	Maine	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	DEFENSE GROUP INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	490
	DIGITAL TECHNOLOGY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	152
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	499
	DRAPER CHARLES STARK LAB INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	96
	DREXEL UNIVERSITY	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Explor RDTE/Electronics & Communication Eq-Explor	195 50
		STATE TOTAL			245

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(AMOUNTS IN THOUSANDS)

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AC62 (CONTINUED)					
	DYNACORP	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	\$ 230
	E I C LABORATORY INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	193
	E OIR MEASUREMENTS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	477
	E TEK DYNAMICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	49
	EATON CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	160
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	30
	EDGE SYSTEMS INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	542
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	95
	ELECTROMAGNETIC SCIENCES INC	Georgia	NAVY	RDTE/Electronics & Communication Eq-Explor	309
	EMCORE CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	44
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Electronics & Communication Eq-Explor	186
	ENCORE COMPUTER CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	2,003
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	712
	ENGINEERING MGMT RESOURCES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	487
	EPITAXX INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	EXPERT EASE SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	485
	F & H APPLIED SCIENCES ASSOC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	160
	FIBERTEK INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	2,506
			NAVY	RDTE/Electronics & Communication Eq-Explor	1,927
	STATE TOTAL				4,433
	FOSTER MILLER INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	50
			NAVY	RDTE/Electronics & Communication Eq-Explor	63
	STATE TOTAL				113
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Explor	304
	GENERAL ELECTRIC COMPANY	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	156
			NAVY	RDTE/Electronics & Communication Eq-Explor	40

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AC62 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL	\$
GENERAL TECHNICAL SERVICES		New York	196
GEO CENTERS INC		ARMY	652
GEORGIA TECH RESEARCH CORP		USAF	5,293
GRUMMAN AEROSPACE CORPORATION		RDTE/Electronics & Communication Eq-Explor	5,945
GTE GOVERNMENT SYSTEMS CORP		RDTE/Electronics & Communication Eq-Explor	6,141
HARRIS CORPORATION		STATE TOTAL	108
		New Jersey	1,929
		ARMY	165
		Mass	327
		ARMY	3,651
		Georgia	93-
		ARMY	1,277
		New York	1,184
		NAVY	1,000
		Mass	2,184
		ARMY	147
		Florida	431
		ARMY	200
		USAF	3,865
		RDTE/Electronics & Communication Eq-Explor	41
		RDTE/Electronics & Communication Eq-Explor	297
		STATE TOTAL	4,203
CONTRACTOR TOTAL		ARMY	273
		New York	4,476
		NAVY	50
		New Jersey	1,107
		ARMY	
		California	
		ARMY	
		Minnesota	
		NAVY	
		USAF	
		RDTE/Electronics & Communication Eq-Explor	
		RDTE/Electronics & Communication Eq-Explor	
		STATE TOTAL	
CONTRACTOR TOTAL		ARMY	
		Penn	
		RDTE/Electronics & Communication Eq-Explor	
		Michigan	
		NAVY	
		RDTE/Electronics & Communication Eq-Explor	
		California	
		ARMY	
		RDTE/Electronics & Communication Eq-Explor	

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AC62 (CONTINUED)					
	HYCOM INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,254
	INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	3,228
	INTEL CORPORATION	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	5,589
	INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Electronics & Communication Eq-Explor	50
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	497
			NAVY	RDTE/Electronics & Communication Eq-Explor	2,833
			STATE TOTAL		694
					2,361
					73
					2,434
					3,128
	CONTRACTOR TOTAL				90
	INTERNATIONAL SOFTWARE SYSTEMS	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	15,302
	ITT & MARTIN MARIETTA JV	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	721
	ITT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	318
		Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	1,039
	CONTRACTOR TOTAL				200
	J R S RESEARCH LABORATORIES	California	ARMY	RDTE/Electronics & Communication Eq-Explor	16,065
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	459
	K M S FUSION INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	125
	KAMAN SCIENCES CORPORATION	Colorado	ARMY	RDTE/Electronics & Communication Eq-Explor	451
	KDI PRECISION PRODUCTS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	63
	L J F CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	65
	LITTON SYSTEMS INC	Arizona	NAVY	RDTE/Electronics & Communication Eq-Explor	2,795
		California	NAVY	RDTE/Electronics & Communication Eq-Explor	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	LOCKHEED CORPORATION	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	113
	LOCKHEED TECHNICAL SERVICES CO	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	2,973
	LOCUS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	5,226
	LORAL CORPORATION	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	1,200
	LOS ALAMOS TECHNICAL ASSOC INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	636
	M/A COM PHI INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Explor	600
	MAGNAVOX GOVT & INDSTR ELCTR	California	ARMY	RDTE/Electronics & Communication Eq-Explor	8,011
	MASSACHSTTS INST OF TECHNOLOGY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	94
	MAXWELL LABORATORIES INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	718
	MEASUREMENT CONCEPTS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	100
	METRON INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	138
	MICROELECTRONICS	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	65
	MICROTRONICS ASSOCIATES INC	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	485
	MILLITECH CORPORATION	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	336
	NATIONAL SEMICONDUCTOR CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	115
	NATIONS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	206
	NAVSYS CORP	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	208
	NEW BEDFORD PANORAMEX CORP	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	450
	NEW ENGLAND RESEARCH CENTER	California	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	NICHOLS RESEARCH CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Explor	384
	NOISE COM INC	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	33
	NONVOLATILE ELECTRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	293
		Minnesota	NAVY	RDTE/Electronics & Communication Eq-Explor	200
					50

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC62 (CONTINUED)				
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 98
NORTH EAST SEMICONDUCTOR INC	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	82
NORTHROP CORPORATION	Illinois	ARMY	RDTE/Electronics & Communication Eq-Explor	1,520
OCEAN SYSTEMS RESEARCH INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	132
OPTICS ONE INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	485
OPTIVISION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	300
OPTRON SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Explor	108
ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Explor	7,554
P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	250
PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	400
PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	234
PENN COMPUTER ASSOCIATES INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	74
PENNSYLVANIA STATE UNIV INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	13,304
PERKIN ELMER CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,050
	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	698
CONTRACTOR TOTAL				1,748
PHELAN COMPUTING INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	336
PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	198
PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Electronics & Communication Eq-Explor	254
POLHEMUS NVGTN SCNC INC	Vermont	NAVY	RDTE/Electronics & Communication Eq-Explor	226
PRAGMATICS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	400
PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	457
QUANSCAN INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	250
QUARTZTRONICS INC	Utah	ARMY	RDTE/Electronics & Communication Eq-Explor	115

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	260
	RAMSEARCH CO	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	RAYOVAC CORPORATION	Wisconsin	ARMY	RDTE/Electronics & Communication Eq-Explor	200
	RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication Eq-Explor	302
		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	210
			NAVY	RDTE/Electronics & Communication Eq-Explor	75
			USAF	RDTE/Electronics & Communication Eq-Explor	2,143
	STATE TOTAL				2,428
	CONTRACTOR TOTAL				351
	ROCKWELL INTERNATIONAL CORP	Rhode Isl	NAVY	RDTE/Electronics & Communication Eq-Explor	3,081
		California	NAVY	RDTE/Electronics & Communication Eq-Explor	76
			USAF	RDTE/Electronics & Communication Eq-Explor	96
	STATE TOTAL				172
	ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	1,089
	ROME RESEARCH CORP	New York	NAVY	RDTE/Electronics & Communication Eq-Explor	189
	S C S TELECOM INC	New York	ARMY	RDTE/Electronics & Communication Eq-Explor	194
	SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	398
	SAN DIEGO AIRCRAFT ENGINEERING	California	NAVY	RDTE/Electronics & Communication Eq-Explor	47
	SANDERS ASSOCIATES INTERNATNL	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	1,106
			USAF	RDTE/Electronics & Communication Eq-Explor	709
	STATE TOTAL				1,815
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Explor	140
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	325
			NAVY	RDTE/Electronics & Communication Eq-Explor	705
	CONTRACTOR TOTAL				1,030
					1,170

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC62 (CONTINUED)					
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	202
	SEAKR ENGINEERING INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Explor	180
	SIERRA MONOLITHICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	110
	SIERRA NEVADA CORPORATION	Nevada	ARMY	RDTE/Electronics & Communication Eq-Explor	519
			NAVY	RDTE/Electronics & Communication Eq-Explor	49
			STATE TOTAL		568
	SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	42
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	75
	SONETECH CORPORATION	N.H.	NAVY	RDTE/Electronics & Communication Eq-Explor	527
	SPARTA INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	240
	SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Explor	681
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,000
	SPECTRUM SCIENCES INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	50
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	180
	SPIRE CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	89-
	SRI INTERNATIONAL	California	ARMY	RDTE/Electronics & Communication Eq-Explor	2,320
			USAF	RDTE/Electronics & Communication Eq-Explor	332
			STATE TOTAL		2,652
	SRS TECHNOLOGIES	California	NAVY	RDTE/Electronics & Communication Eq-Explor	462
	STANFORD UNIVERSITY	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,120
	STAR MICROWAVE	California	ARMY	RDTE/Electronics & Communication Eq-Explor	187
	SUPERCONDUCTIVE ELECTRONICS IN	California	NAVY	RDTE/Electronics & Communication Eq-Explor	48
	SYNERGISTIC TECHNOLOGIES CORP	W Virginia	USAF	RDTE/Electronics & Communication Eq-Explor	250
	SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,221
	TACAN CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	200

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AC62 (CONTINUED)					
	TELECOMMUNICATION SCIENCE ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	2,795
	TENCO SERVICES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Explor	54
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Electronics & Communication Eq-Explor	62
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	1,340
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Explor	4,944
			NAVY	RDTE/Electronics & Communication Eq-Explor	4,078
			USAF	RDTE/Electronics & Communication Eq-Explor	616
	STATE TOTAL				9,638
	TEXCOM INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	60
	TFR TECHNOLOGIES INC	Iowa	ARMY	RDTE/Electronics & Communication Eq-Explor	49
	THE ANALYTIC SCIENCE CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	6,637
	THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	3,281
	TIL DEFENSE SYSTEMS	ISRAEL	ARMY	RDTE/Electronics & Communication Eq-Explor	86
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Explor	1,983
	TRACOR AEROSPACE INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	398
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	250
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	17,435
			NAVY	RDTE/Electronics & Communication Eq-Explor	222
	STATE TOTAL				17,657
	UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Electronics & Communication Eq-Explor	60
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Electronics & Communication Eq-Explor	242
			NAVY	RDTE/Electronics & Communication Eq-Explor	50
	STATE TOTAL				292
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Electronics & Communication Eq-Explor	481
			NAVY	RDTE/Electronics & Communication Eq-Explor	50
			USAF	RDTE/Electronics & Communication Eq-Explor	70
	STATE TOTAL				601

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AC62 (CONTINUED)					
	UNIVERSITY OF LOWELL	Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	\$ 46
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Electronics & Communication Eq-Explor	54
	UNIVERSITY OF STERN CLIFORNIA	California	USAF	RDTE/Electronics & Communication Eq-Explor	38
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Electronics & Communication Eq-Explor	14,410
	UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Electronics & Communication Eq-Explor	200
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Electronics & Communication Eq-Explor	763
	VARIAN ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Explor	1,000
			NAVY	RDTE/Electronics & Communication Eq-Explor	163
			STATE TOTAL		1,163
	VISTA RESEARCH	California	NAVY	RDTE/Electronics & Communication Eq-Explor	188
	VITRONICS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	5,790
	VULN & EVAL ASSOC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Explor	47
	WESTERN RESEARCH CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Explor	50
			NAVY	RDTE/Electronics & Communication Eq-Explor	200
			STATE TOTAL		250
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Explor	112
			USAF	RDTE/Electronics & Communication Eq-Explor	4,711
			STATE TOTAL		4,823
	CONTRACTOR TOTAL	Ohio	ARMY	RDTE/Electronics & Communication Eq-Explor	350
	WHITTAKER TECHNICAL PRODUCTS	Conn	ARMY	RDTE/Electronics & Communication Eq-Explor	5,173
		Mass	ARMY	RDTE/Electronics & Communication Eq-Explor	200
			STATE TOTAL		103
	CONTRACTOR TOTAL	Colorado	NAVY	RDTE/Electronics & Communication Eq-Explor	303
	XEDAR CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Explor	61
	XMCO INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Explor	200
	ZEGAR ABRAMS INCORPORATED				58

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R&D TOTAL					
AC63	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	258,520
	A T S S INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	52
	ABACUS TECHNOLOGY CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	55
	ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	195
		USAF	RDTE/Electronics & Communication Eq-Advanc	2,446	
			RDTE/Electronics & Communication Eq-Advanc	700	
	STATE TOTAL				3,146
	AEL DEFENSE CORP	Penn	ARMY	RDTE/Electronics & Communication Eq-Advanc	50
	ALCOA DEFENSE SYSTEMS INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	658
	AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	50
	AMERICAN TELE & TELG COMPANY	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	85,206
	ANADAC INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Advanc	219
	ANALYSIS & COMPUTER SYSTEMS	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	551
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Advanc	97
	APPLIED SCIENCES INC	Ohio	NAVY	RDTE/Electronics & Communication Eq-Advanc	249
	AT&T TECHNOLOGIES INC	Georgia	ARMY	RDTE/Electronics & Communication Eq-Advanc	145
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	390
		USAF	RDTE/Electronics & Communication Eq-Advanc	1,329	
	STATE TOTAL				1,719
	CONTRACTOR TOTAL				109
	ATLANTIC AEROSPACE ELECTRONICS	N Carolina	USAF	RDTE/Electronics & Communication Eq-Advanc	2,521
	ATLANTIC RESEARCH CORPORATION	Penn	USAF	RDTE/Electronics & Communication Eq-Advanc	4,494
	ATT COMPANY	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	198
	AUTOMETRIC INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	510
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,613-
		Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	100

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AC63 (CONTINUED)					
	BALL CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 66
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	244
	CONTRACTOR TOTAL				310
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	628
	BOEING COMPANY THE	Kansas	USAF	RDTE/Electronics & Communication Eq-Advanc	900
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	496
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	950
	BRITISH AEROSPACE PLC	UNITED KIN	NAVY	RDTE/Electronics & Communication Eq-Advanc	750
	BRUNSWICK CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	495
	BTG INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	90
	C & M TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Advanc	76
	C M ENGINEERING CO	New Mexico	USAF	RDTE/Electronics & Communication Eq-Advanc	438
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	231
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Electronics & Communication Eq-Advanc	180
	COHERENT TECHNOLOGIES INC	Colorado	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	50 560
	STATE TOTAL				610
	COMPUSEC INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,830
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	1,488
		Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	60
	CONTRACTOR TOTAL				1,548
	COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	172
	CONTEL FEDERAL SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	354
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	550

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AC63 (CONTINUED)					
	CONTRACTOR TOTAL				
	CREATIVE TECHNOLOGY INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Advanc	904
	DATASONICS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	51
	DAVID SARNOFF RESEARCH CENTER	California	USAF	RDTE/Electronics & Communication Eq-Advanc	423
	DBA SYSTEMS INC	Florida	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,437 789 269
	STATE TOTAL				1,058
	DCS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Advanc	760
	DECIOLOG INC	New York	USAF	RDTE/Electronics & Communication Eq-Advanc	165
	DELFIN SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Advanc	534
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	1,782
	E OIR MEASURFMENTS INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Advanc	125
	E SYSTEMS INC	Florida	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	21,657 499
	STATE TOTAL				22,156
	EATON CORPORATION	New York	ARMY NAVY	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	953 161
	STATE TOTAL				1,114
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	227
	ELECTRO RADIATION INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Advanc	500
	ELECTRONIC SYS DEVELOPMENT	Florida	USAF	RDTE/Electronics & Communication Eq-Advanc	221
	ENGINEERING & ECONOMICS RES	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	604
	ENGINEERING & PROF SVCS	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	293
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Electronics & Communication Eq-Advanc	4,755
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	18,564

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC63 (CONTINUED)

FIBERTEK INC	Virginia	USAF	RDTE/Electronics & Communication	Eq-Advanc	\$ 125
FORD AEROSPACE CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	50
FORD H J ASSOCIATES INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,091
FOSTER MILLER INC	Mass	NAVY	RDTE/Electronics & Communication	Eq-Advanc	57
FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	374
G E C PLESSEY ELECTRONIC SYS	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	80
GATEWAY MODELING INC	Minnesota	USAF	RDTE/Electronics & Communication	Eq-Advanc	113
GENERAL DYNAMICS CORPORATION	California	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	57 740
STATE TOTAL					797
CONTRACTOR TOTAL					51-
GENERAL ELECTRIC COMPANY	Texas	USAF	RDTE/Electronics & Communication	Eq-Advanc	746
	New Jersey	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	1,504 450
STATE TOTAL					1,954
	New York	ARMY NAVY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc Eq-Advanc	9,531 17,612 9,018
STATE TOTAL					36,161
CONTRACTOR TOTAL					38,115
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY USAF	RDTE/Electronics & Communication RDTE/Electronics & Communication	Eq-Advanc Eq-Advanc	783 554
STATE TOTAL					1,337
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,842
GOULD INC	Illinois	USAF	RDTE/Electronics & Communication	Eq-Advanc	636
	Ohio	NAVY	RDTE/Electronics & Communication	Eq-Advanc	42

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC63 (CONTINUED)

HARRIS CORPORATION	CONTRACTOR TOTAL				\$	678
	Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc		696
	New York	NAVY USAF	RDTE/Electronics & Communication	Eq-Advanc		1,500 253
	STATE TOTAL					1,753
HAZELTINE CORPORATION	CONTRACTOR TOTAL					2,449
	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		65
	New York	ARMY NAVY USAF	RDTE/Electronics & Communication	Eq-Advanc		780 91 2,608
	STATE TOTAL					3,479
HONEYWELL INC	CONTRACTOR TOTAL					3,544
	Minnesota	ARMY NAVY USAF	RDTE/Electronics & Communication	Eq-Advanc		3,450 216 1,772
	STATE TOTAL					5,438
	New Mexico	ARMY NAVY	RDTE/Electronics & Communication	Eq-Advanc		4,902 500
HUGHES AIRCRAFT COMPANY	CONTRACTOR TOTAL					5,402
	California	ARMY NAVY USAF	RDTE/Electronics & Communication	Eq-Advanc		10,840
	STATE TOTAL					2,550 10,216 25,605
	New Mexico	USAF	RDTE/Electronics & Communication	Eq-Advanc		38,371
HUGHES DANBURY OPTICAL SYSTEMS INNOVATIVE INFORMATION SYS	CONTRACTOR TOTAL					13,055
	Conn	USAF	RDTE/Electronics & Communication	Eq-Advanc		51,426
	California	USAF	RDTE/Electronics & Communication	Eq-Advanc		74
	STATE TOTAL					1,975

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC63 (CONTINUED)

INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	\$ 392
INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication	Eq-Advanc	150
INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Electronics & Communication	Eq-Advanc	2,920
		USAF	RDTE/Electronics & Communication	Eq-Advanc	252
	STATE TOTAL				3,172
	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Advanc	9,890
		USAF	RDTE/Electronics & Communication	Eq-Advanc	8,375
	STATE TOTAL				18,265
CONTRACTOR TOTAL					21,437
IRVINE SENSORS CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	813
ITT CORPORATION	Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	587
JBS TECHNOLOGIES INC	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	49
KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,010
L S I LOGIC CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	302
LITTON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Advanc	998
		USAF	RDTE/Electronics & Communication	Eq-Advanc	665
	STATE TOTAL				1,663
CONTRACTOR TOTAL	Conn	ARMY	RDTE/Electronics & Communication	Eq-Advanc	27
LOCKHEED CORPORATION	California	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,690
	N.H.	NAVY	RDTE/Electronics & Communication	Eq-Advanc	675
		USAF	RDTE/Electronics & Communication	Eq-Advanc	750
	STATE TOTAL				40
CONTRACTOR TOTAL					790
LOCKHEED ELECTRONICS CO	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Advanc	1,465
		USAF	RDTE/Electronics & Communication	Eq-Advanc	108
					736

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	LORAL CORPORATION				\$
		STATE TOTAL			844
		Arizona	USAF	RDTE/Electronics & Communication Eq-Advanc	318
		California	USAF	RDTE/Electronics & Communication Eq-Advanc	4,489
		Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	2,735
			USAF	RDTE/Electronics & Communication Eq-Advanc	2,264
		STATE TOTAL			4,999
		New York	USAF	RDTE/Electronics & Communication Eq-Advanc	480
		STATE TOTAL			10,286
	CONTRACTOR TOTAL				
	M T L SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	150
	M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	605
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	1,226
	MAGICSOFT INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Advanc	44
	MAGNAVOX GOVT & INDSTR ELCTR	Indiana	ARMY	RDTE/Electronics & Communication Eq-Advanc	895
			USAF	RDTE/Electronics & Communication Eq-Advanc	228
		STATE TOTAL			1,123
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Advanc	1,540
		Florida	ARMY	RDTE/Electronics & Communication Eq-Advanc	77
			USAF	RDTE/Electronics & Communication Eq-Advanc	19,982
		STATE TOTAL			20,059
	CONTRACTOR TOTAL				21,599
	MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Advanc	749
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	851
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	3,500
		Missouri	USAF	RDTE/Electronics & Communication Eq-Advanc	3,714
	CONTRACTOR TOTAL				7,214

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	---R&D DESCRIPTION---	
AC63 (CONTINUED)					
	MCDONNELL DOUGLAS HLCPTR CO	Arizona	ARMY	RDTE/Electronics & Communication Eq-Advanc	\$ 237
	MERCURY COMPUTER SYSTEMS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Advanc	33
	MERIT TECHNOLOGY INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	114
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	98
	MICROWAVE MODULES & DEVICES	California	USAF	RDTE/Electronics & Communication Eq-Advanc	280
	MICROWAVE TECHNOLOGY INC	California	USAF	RDTE/Electronics & Communication Eq-Advanc	280
	MOTOROLA INC	Arizona	NAVY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	476 868
		STATE TOTAL			1,344
	NEPTUNE TECHNOLOGIES INC	Miss	NAVY	RDTE/Electronics & Communication Eq-Advanc	52
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Electronics & Communication Eq-Advanc	512
	NORDEN SYSTEMS INC	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	774
		New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	76
	CONTRACTOR TOTAL				850
	NORTHROP CORPORATION	California	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	100 7,282
		STATE TOTAL			7,382
		Illinois	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	383 570
		STATE TOTAL			953
	CONTRACTOR TOTAL				8,335
	ODYSSEY RESEARCH ASSOCIATES	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	777
	ORINCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	47
	P E SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	548
	PACIFIC SIERRA RESEARCH CORP	California	ARMY USAF	RDTE/Electronics & Communication Eq-Advanc RDTE/Electronics & Communication Eq-Advanc	1,825 229
		STATE TOTAL			2,054

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC63 (CONTINUED)					
	PALISADES INST FOR RES SVCS	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	\$ 130
	PAR TECHNOLOGY CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	57
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	1,383
	QSOURCE INC	Conn	USAF	RDTE/Electronics & Communication Eq-Advanc	238
	QUALCOMM INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	475
			USAF	RDTE/Electronics & Communication Eq-Advanc	1,638
	STATE TOTAL				2,113
	QUESTECH INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	115
	R F I CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Advanc	138
	RACAL DANA INSTRUMENTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	755
	RADIAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	90
	RAYTHEON COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	87
			USAF	RDTE/Electronics & Communication Eq-Advanc	1,100
	STATE TOTAL				1,187
		Mass	USAF	RDTE/Electronics & Communication Eq-Advanc	28,372
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	642
		Rhode Isld	NAVY	RDTE/Electronics & Communication Eq-Advanc	333
	CONTRACTOR TOTAL				30,534
	RECON & OPTICAL INC	Illinois	ARMY	RDTE/Electronics & Communication Eq-Advanc	107
	REFRACTION TECHNOLOGY INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	233
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Electronics & Communication Eq-Advanc	433
	RISBERG POWER ELECTRONICS INC	Wisconsin	NAVY	RDTE/Electronics & Communication Eq-Advanc	496
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	5,772
			NAVY	RDTE/Electronics & Communication Eq-Advanc	1,500
			USAF	RDTE/Electronics & Communication Eq-Advanc	5,443
	STATE TOTAL				12,715
	SAFT AMERICA INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Advanc	30

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AC63 (CONTINUED)							
SANDERS ASSOCIATES INTERNATNL		N.H.	ARMY	RDTE/Electronics & Communication	Eq-Advanc	505	
			NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,535	
			USAF	RDTE/Electronics & Communication	Eq-Advanc	100	
STATE TOTAL						2,140	
SCIENCE APPLICATIONS INTL CORP		California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	486	
		D.C.	NAVY	RDTE/Electronics & Communication	Eq-Advanc	245	
		Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	1,163	
		Virginia	NAVY	RDTE/Electronics & Communication	Eq-Advanc	1,675	
CONTRACTOR TOTAL						3,549	
SCIENCE RESEARCH LABORATORY		Mass	USAF	RDTE/Electronics & Communication	Eq-Advanc	50	
SCOPE INCORPORATED		Virginia	USAF	RDTE/Electronics & Communication	Eq-Advanc	154	
SEMCOR INC		Penn	NAVY	RDTE/Electronics & Communication	Eq-Advanc	251	
SIXD B CORP		Maryland	NAVY	RDTE/Electronics & Communication	Eq-Advanc	316	
SMITH-ELDEN INC		Florida	NAVY	RDTE/Electronics & Communication	Eq-Advanc	50	
SOFTECH INC		Mass	ARMY	RDTE/Electronics & Communication	Eq-Advanc	40	
		Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc	50	
		Texas	USAF	RDTE/Electronics & Communication	Eq-Advanc	420	
CONTRACTOR TOTAL						510	
SOFTWARE SYSTEMS ENGINEERING		California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	314	
SPARTON CORPORATION		Michigan	NAVY	RDTE/Electronics & Communication	Eq-Advanc	2,251	
SPECTRA TECHNOLOGY INC		Washington	USAF	RDTE/Electronics & Communication	Eq-Advanc	221	
SRI INTERNATIONAL		California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	5,759	
SRS TECHNOLOGIES		California	ARMY	RDTE/Electronics & Communication	Eq-Advanc	440	
SYSTEM DYNAMICS INTERNATIONAL		Florida	ARMY	RDTE/Electronics & Communication	Eq-Advanc	115-	
SYSTEMS ENGINEERING ASSOC CORP		Conn	NAVY	RDTE/Electronics & Communication	Eq-Advanc	50	

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AC63 (CONTINUED)					
	TEXAS INSTRUMENTS ASIA LIMITED	Texas	NAVY	RDTE/Electronics & Communication Eq-Advanc	\$ 242
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication Eq-Advanc	4,643
			NAVY	RDTE/Electronics & Communication Eq-Advanc	350
			USAF	RDTE/Electronics & Communication Eq-Advanc	1,877
		STATE TOTAL			6,870
	TEXCOM INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Advanc	80
	TEXTRON INC	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	781
	THE ANALYTIC SCIENCE CORP	Mass	ARMY	RDTE/Electronics & Communication Eq-Advanc	398
			NAVY	RDTE/Electronics & Communication Eq-Advanc	3,148
			USAF	RDTE/Electronics & Communication Eq-Advanc	985
		STATE TOTAL			4,531
	CONTRACTOR TOTAL	Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	597
					5,128
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	100
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Advanc	119
		Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	1,356
					1,475
	CONTRACTOR TOTAL	Texas	USAF	RDTE/Electronics & Communication Eq-Advanc	300
	TREMETRICS INC	California	ARMY	RDTE/Electronics & Communication Eq-Advanc	1,637
	TRW INC		USAF	RDTE/Electronics & Communication Eq-Advanc	10,262
		STATE TOTAL			11,899
		Ohio	USAF	RDTE/Electronics & Communication Eq-Advanc	4,690
					16,589
	CONTRACTOR TOTAL	California	NAVY	RDTE/Electronics & Communication Eq-Advanc	100
	UNISYS CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Advanc	55
		New York	ARMY	RDTE/Electronics & Communication Eq-Advanc	2,130

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AC63 (CONTINUED)

CONTRACTOR TOTAL		Utah	USAF	RDTE/E	tronics & Communication	Eq-Advanc	\$
UNITED TECHNOLOGIES OPT SYSTEMS		Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc		2,217
UNITED TECHNOLOGIES CORP		Florida	USAF	RDTE/Electronics & Communication	Eq-Advanc		4,502
UNIVERSITY OF MISSISSIPPI		Michigan	NAVY	RDTE/Electronics & Communication	Eq-Advanc		300
UNIVERSITY OF STHRN CLFORNIA		California	USAF	RDTE/Electronics & Communication	Eq-Advanc		410
VARIAN ASSOCIATES INC		California	ARMY	RDTE/Electronics & Communication	Eq-Advanc		40
VEDA INCORPORATED		Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		148
VEDA INTERNATIONAL INC		Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		200
VIASAT INC		California	NAVY	RDTE/Electronics & Communication	Eq-Advanc		440
WESTINGHOUSE ELECTRIC CORP		Maryland	ARMY USAF	RDTE/Electronics & Communication	Eq-Advanc		102
STATE TOTAL							1,040
							21,655
							4,105
							25,760
CONTRACTOR TOTAL		Penn	USAF	RDTE/Electronics & Communication	Eq-Advanc		180
							25,940
WRIGHT STATE UNIVERSITY		Ohio	USAF	RDTE/Electronics & Communication	Eq-Advanc		284
XETRON CORPORATION		Ohio	ARMY	RDTE/Electronics & Communication	Eq-Advanc		1,100
ZYCAD CORPORATION		New Jersey	USAF	RDTE/Electronics & Communication	Eq-Advanc		2,400
R&D TOTAL							494,635
AC64 A A I CORPORATION		Maryland	USAF	RDTE/Electronics & Communication	Eq-Engr D		172
ABACUS PROGRAMMING CORPORATION		California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		70
ADVANCED CNTERMEASURE SYSTEMS		California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		50
ADVANCED SYSTEMS DEVELOPMENT		New York	USAF	RDTE/Electronics & Communication	Eq-Engr D		1,000
ADVANCED TECHNOLOGY INC		California	NAVY	RDTE/Electronics & Communication	Eq-Engr D		364

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	294
	AHNTech INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	878
	AIRSPACE TECHNOLOGY CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	26
	ALLIED SIGNAL AEROSPACE CO	Indiana	ARMY	RDTE/Electronics & Communication Eq-Engr D	114
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	99
		NAVY	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,383
		USAF	USAF	RDTE/Electronics & Communication Eq-Engr D	46,550
	STATE TOTAL				49,032
	CONTRACTOR TOTAL				49,146
	AMERICAN DEFENSE SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	48
	AMERICAN ELECTRONICS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	88
	AMERICAN SYSTEMS CORPORATION	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	7,153
	AMERICAN TECHNOLOGY CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	60
	AMHERST SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	69
	ANALYSIS & COMPUTER SYSTEMS	Mass	ARMY	RDTE/Electronics & Communication Eq-Engr D	130
		USAF	USAF	RDTE/Electronics & Communication Eq-Engr D	542
	STATE TOTAL				672
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	100
	ANDRULIS RESEARCH CORP	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,572
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	97
	AT&T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,351
		N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	45,453
	CONTRACTOR TOTAL				48,804
	ATT COMPANY	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,129-
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Electronics & Communication Eq-Engr D	73,778

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AC64 (CONTINUED)					
	BOEING COMPANY THE		USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 41,550
		STATE TOTAL			115,328
		Kansas	USAF	RDTE/Electronics & Communication Eq-Engr D	2,352
		Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	7,852
	CONTRACTOR TOTAL				10,204
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Electronics & Communication Eq-Engr D	3,166
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	951
	BOOZ ALLEN & HAMILTON INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	325
	BTG INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,894
	C T S CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	775
	CALIFORNIA MICROWAVE INC	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	100
	CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	4,636
	CARCO ELECTRONICS	California	USAF	RDTE/Electronics & Communication Eq-Engr D	1,319
	CHELTON INC	UNITED KIN	USAF	RDTE/Electronics & Communication Eq-Engr D	43-
	COLLINS INTERNATIONAL SVC CO	Iowa	USAF	RDTE/Electronics & Communication Eq-Engr D	21,996
	COMARCO INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	8,608
	COMBUSTION ENGINEERING INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	6,962
	COMMAND CTRL COMMUNICATIONS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	314
	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,283
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	243
		USAF	USAF	RDTE/Electronics & Communication Eq-Engr D	12,518
	CONTRACTOR TOTAL	STATE TOTAL			12,761
					15,044
	CONTEL FEDERAL SYSTEMS INC	Virginia	USAF	RDTE/Electronics & Communication Eq-Engr D	3,670
	CONTROL DATA CORPORATION	Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	17,987

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AC64 (CONTINUED)					
			USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 349
			STATE TOTAL		18,336
	CUBIC CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,602
	DELFIN SYSTEMS	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	DELTA INFORMATION SYSTEMS	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	DIGITAL EQUIPMENT CORPORATION	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	5,180
	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	615
	E SYSTEMS INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	7,237
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	2,675
		Utah	ARMY	RDTE/Electronics & Communication Eq-Engr D	177
					10,089
	CONTRACTOR TOTAL				
	EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	50
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,705
	EDO CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,129
	EDO WESTERN CORPORATION	Utah	NAVY	RDTE/Electronics & Communication Eq-Engr D	548
	EG&G GEOMETRICS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	52
	ELDYNE INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	121
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	57
	ELECTRONIC WARFARE ASSOCIATES	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	95
	ELECTROSPACE SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	644
	EMERSON ELECTRIC CO	Missouri	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,690
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	55
	ERC INTERNATIONAL INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,444
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	360

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AC64 (CONTINUED)					
EVALUATION RESEARCH CORP		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	\$ 434
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	118
	CONTRACTOR TOTAL				552
	FALON INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	486
	FEMME COMP INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	151
FORD AEROSPACE CORPORATION		California	USAF	RDTE/Electronics & Communication Eq-Engr D	31,118
		Colorado	USAF	RDTE/Electronics & Communication Eq-Engr D	59,935
	CONTRACTOR TOTAL				91,053
G E C PLESSEY ELECTRONIC SYS		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	4,701
			USAF	RDTE/Electronics & Communication Eq-Engr D	118,742
	STATE TOTAL				123,443
G E C PLESSEY MICROSYSTEMS LTD		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	480
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	202
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	35,615
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,200
	CONTRACTOR TOTAL				17,495
GENERAL ELECTRIC COMPANY		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	88,802
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	107,497
	CONTRACTOR TOTAL				143
GENERAL ELECTRONIC SYSTEMS		Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,737
		California	ARMY	RDTE/Electronics & Communication Eq-Engr D	135
			NAVY	RDTE/Electronics & Communication Eq-Engr D	127
GENERAL INSTRUMENT CORP DEL			USAF	RDTE/Electronics & Communication Eq-Engr D	2,999
	STATE TOTAL				336
		New York	ARMY	RDTE/Electronics & Communication Eq-Engr D	3,335
CONTRACTOR TOTAL					

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	GENRAD INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 157
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,224
			USAF	RDTE/Electronics & Communication Eq-Engr D	65
		STATE TOTAL			2,289
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,146
			USAF	RDTE/Electronics & Communication Eq-Engr D	2,054
		STATE TOTAL			3,200
	GOVERNMENT TECHNOLOGY SERVICES	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	GRUMMAN AEROSPACE CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	79
		New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	22,000
			USAF	RDTE/Electronics & Communication Eq-Engr D	70,240
		STATE TOTAL			92,240
	CONTRACTOR TOTAL				92,319
	GRUMMAN DATA SYSTEMS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	18,895
	GTE GOVERNMENT SYSTEMS CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	54-
	GTE LABORATORIES INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	140
	GTE PRODUCTS CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	34
	HARRIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	600
	HARRIS MAGNAVOX SYSTEMS CO JV	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	7,124
	HAZELTINE CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,915
	HONEYWELL INC	Florida	USAF	RDTE/Electronics & Communication Eq-Engr D	95
		Minnesota	USAF	RDTE/Electronics & Communication Eq-Engr D	880
					975
	CONTRACTOR TOTAL				57
	HORIZONS TECHNOLOGY INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,314
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	10,494
			NAVY	RDTE/Electronics & Communication Eq-Engr D	4,043
			USAF	RDTE/Electronics & Communication Eq-Engr D	

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	HUNTER RESEARCH INC	Minnesota	ARMY	RDTE/Electronics & Communication Eq-Engr D	18,851
	HYDRASEARCH CO INC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D	2,744
	I I T RESEARCH INSTITUTE	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	ILLINOIS INST OF TECHNOLOGY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	21,645
	INFORMATION NETWORK SYSTEMS	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	254
	INNERSPACE TECHNOLOGY INC	Illinois	NAVY	RDTE/Electronics & Communication Eq-Engr D	27
	INTERMETRICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,427
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,778
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	82
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	101
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	70
	CONTRACTOR TOTAL				4,179
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Electronics & Communication Eq-Engr D	2,446
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	6,695
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	90
	CONTRACTOR TOTAL				257
	INTERSTATE ELECTRONICS CORP	California	USAF	RDTE/Electronics & Communication Eq-Engr D	24,497
	IRI INTERNATIONAL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	24,844
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	NAVY	RDTE/Electronics & Communication Eq-Engr D	22,016
	ITT CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
		Indiana	ARMY	RDTE/Electronics & Communication Eq-Engr D	20,193
		New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	176
					8,845
					428

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
		NAVY RDTE/Electronics & Communication Eq-Engr D			\$ 1,868
		STATE TOTAL			2,296
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	100
		KOREA, REP	ARMY	RDTE/Electronics & Communication Eq-Engr D	238
					11,655
		California	USAF	RDTE/Electronics & Communication Eq-Engr D	27
		New Jersey	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,062
			USAF	RDTE/Electronics & Communication Eq-Engr D	20,333
		STATE TOTAL			21,395
	KEN TRON MFG INC	RDTE/Electronics & Communication Eq-Engr D			139
		Kentucky	USAF	RDTE/Electronics & Communication Eq-Engr D	
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	34,422
			USAF	RDTE/Electronics & Communication Eq-Engr D	70
		STATE TOTAL			34,492
		N.H.	USAF	RDTE/Electronics & Communication Eq-Engr D	7,438
		Texas	NAVY	RDTE/Electronics & Communication Eq-Engr D	3,402
		California	USAF	RDTE/Electronics & Communication Eq-Engr D	249
		California	ARMY	RDTE/Electronics & Communication Eq-Engr D	27
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	8,984
	CONTRACTOR TOTAL	RDTE/Electronics & Communication Eq-Engr D			2,317
		Penn	ARMY	RDTE/Electronics & Communication Eq-Engr D	
		New York	USAF	RDTE/Electronics & Communication Eq-Engr D	11,328
		Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	1,290
		STATE TOTAL			672-
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	618
		Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	13,182
		STATE TOTAL			4,381
		MAGNAVOX GOVT & INDSTR ELCTR			

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	MARTIN MARIETTA CORPORATION		USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 36,033
		STATE TOTAL			40,414
		New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	694
		Colorado	ARMY	RDTE/Electronics & Communication Eq-Engr D	41,108
		Florida	ARMY	RDTE/Electronics & Communication Eq-Engr D	13,134
		Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,382
					1,800
					19,316
	CONTRACTOR TOTAL				
	MAXWELL LABORATORIES INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	54
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Electronics & Communication Eq-Engr D	69,768
			USAF	RDTE/Electronics & Communication Eq-Engr D	11,284
		STATE TOTAL			81,052
	MICRO COMPUTER SYSTEM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Engr D	65
	MICRO MEMORY INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	60
	MILLIMETER WAVE TECHNOLOGY	Georgia	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	MOTOROLA INC	Arizona	ARMY	RDTE/Electronics & Communication Eq-Engr D	12,953
			USAF	RDTE/Electronics & Communication Eq-Engr D	30
		STATE TOTAL			12,983
	NATIONS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	2,623
	NAVCOM DEFENSE ELECTRONICS	California	USAF	RDTE/Electronics & Communication Eq-Engr D	199
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Electronics & Communication Eq-Engr D	249
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Engr D	762
	NORDEN SYSTEMS INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Engr D	248
	NORTHERN TELECOM INC DEL	Georgia	USAF	RDTE/Electronics & Communication Eq-Engr D	29
	NORTHROP CORPORATION	Illinois	USAF	RDTE/Electronics & Communication Eq-Engr D	17,281

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AC64 (CONTINUED)

OCEANIC DEVELOPMENT CO	N.H.	NAVY	RDTE/Electronics & Communication	Eq-Engr D	\$ 42
OPTIC ELECTRONIC CORP	Texas	ARMY	RDTE/Electronics & Communication	Eq-Engr D	2,958
ORIAN ANALYSIS INC	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	444
OVONIC IMAGING SYSTEMS INC	Michigan	NAVY	RDTE/Electronics & Communication	Eq-Engr D	50
PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Electronics & Communication	Eq-Engr D	150
PLANNING RESEARCH CORPORATION	Penn	NAVY	RDTE/Electronics & Communication	Eq-Engr D	767
POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	120
POLAR RESEARCH LABORATORY INC	Virginia	NAVY	RDTE/Electronics & Communication	Eq-Engr D	239
PREDICTION SYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Engr D	80
PURVIS SYSTEMS INCORPORATED	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	49
QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Engr D	475
RAYTHEON COMPANY	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	4,078
		USAF	RDTE/Electronics & Communication	Eq-Engr D	1,800
	STATE TOTAL				5,878
	Mass	NAVY	RDTE/Electronics & Communication	Eq-Engr D	17,385
		USAF	RDTE/Electronics & Communication	Eq-Engr D	191,275
	STATE TOTAL				208,660
CONTRACTOR TOTAL					214,538
REFLECTONE INC	Florida	USAF	RDTE/Electronics & Communication	Eq-Engr D	3,173-
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	129
	Texas	NAVY	RDTE/Electronics & Communication	Eq-Engr D	1,663-
CONTRACTOR TOTAL					1,534-
SANDERS ASSOC GEN ELECTRIC JV	N.H.	USAF	RDTE/Electronics & Communication	Eq-Engr D	24,800
SANDERS ASSOCIATES INTERNATINL	N.H.	NAVY	RDTE/Electronics & Communication	Eq-Engr D	
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Engr D	15,076

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AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	SCIENTIFIC SYSTEMS INC	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	406
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	588
					16,070
	SCOPE INCORPORATED	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	255
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,427
	SEMCOR INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	349
		Penn	NAVY	RDTE/Electronics & Communication Eq-Engr D	182
	CONTRACTOR TOTAL				531
	SEQUENTIAL INFORMATION SYSTEMS	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	440
	SIERRA RESEARCH ENGRG CORP	New York	USAF	RDTE/Electronics & Communication Eq-Engr D	167
	SIPPICAN INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	476
	SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication Eq-Engr D	8,895
	SOFTTECH INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,004
		Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	600
	CONTRACTOR TOTAL				1,604
	SOFTWARE PRODUCTIVITY SOLUTIONS	Florida	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	SOHAR INCORPORATED	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	SONALYSTS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,362
	SONEX ENTERPRISES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	SPARTON CORPORATION	Indiana	NAVY	RDTE/Electronics & Communication Eq-Engr D	4,808
	SPERRY MARINE INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Engr D	455
	STANFORD TELECOMMUNICATIONS	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	99
		USAF	RDTE/Electronics & Communication Eq-Engr D	1,180	
	STATE TOTAL				1,279

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC64 (CONTINUED)					
	SUMARIA SYSTEMS INC	Mass	USAF	RDTE/Electronics & Communication Eq-Engr D	\$ 4,277
	SUMMIT TECHNOLOGIES INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,037
	SYNETICS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Engr D	434
	SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	145
	SYSTEM DEVELOPMENT CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,934
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Engr D	481
	SYSTEMS EXPLORATION INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,716
	TECHNOLOGY COMMUNCATN INTL	California	ARMY	RDTE/Electronics & Communication Eq-Engr D	458
	TELEPHONICS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	6,834
	TETRA TECH DATA SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	113
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY	RDTE/Electronics & Communication Eq-Engr D RDTE/Electronics & Communication Eq-Engr D	3,597 413
			STATE TOTAL		4,010
	TEXTRON INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	659
	THE ANALYTIC SCIENCE CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Engr D	678
	TIBURON SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	7,694
	TITAN SYSTEMS INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,630
	TRACOR AEROSPACE INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	64
	TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	5,506
	TREMETRICS INC	Texas	USAF	RDTE/Electronics & Communication Eq-Engr D	1,864
	TRW INC	California	USAF	RDTE/Electronics & Communication Eq-Engr D	36,881
	U T L CORPORATION	Texas	ARMY	RDTE/Electronics & Communication Eq-Engr D	79
	UNIQUE MOBILITY INC	Colorado	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
	UNISYS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,084
		Minnesota	NAVY	RDTE/Electronics & Communication Eq-Engr D	2,660

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC64 (CONTINUED)					
	CONTRACTOR TOTAL				
	VENTANA SCIENCES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Engr D	1,083
	VISICOM LABORATORIES INC	New York	NAVY	RDTE/Electronics & Communication Eq-Engr D	33-
	WESTINGHOUSE ELECTRIC CORP	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	5,794
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	50
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	1,952
		California	NAVY	RDTE/Electronics & Communication Eq-Engr D	103
		Maryland	ARMY	RDTE/Electronics & Communication Eq-Engr D	865
		NAVY	RDTE/Electronics & Communication Eq-Engr D	1,292-	
	STATE TOTAL				427-
	CONTRACTOR TOTAL				324-
	WIZTEC INC	California	NAVY	RDTE/Electronics & Communication Eq-Engr D	300
	ZYCAD CORPORATION	New Jersey	USAF	RDTE/Electronics & Communication Eq-Engr D	3,457
	R&D TOTAL				1,602,126
AC65	ADAPTIVE SENSORS INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	80
	ADVANCED DIGITAL SYSTEM INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	152
	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	4,032
	AEL INDUSTRIES INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys	30-
	AEROFLEX LABORATORIES INC	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	90
	ALLIANCE TECHSYSTEMS INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	6,025
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	61
	AMERICAN SYSTEMS CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	311
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,806
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	73
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	330

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AC65 (CONTINUED)

APPLIED MOTION TECHNOLOGY	California	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	559
APPLIED RESEARCH LABORATORY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	249
APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op	Sys	598
ARETE ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	2,109
AT&T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	20,412
ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	280
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	2,963
	Penn	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	1,263
CONTRACTOR TOTAL					4,506
AUTOMETRIC INC	New York	USAF	RDTE/Electronics & Communication Eq-Op	Sys	529
	Texas	USAF	RDTE/Electronics & Communication Eq-Op	Sys	156
CONTRACTOR TOTAL					665
BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	212
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	74
	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	1,234
CONTRACTOR TOTAL					1,308
CADENTIX CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	42
CALSPAN CORPORATION	New York	USAF	RDTE/Electronics & Communication Eq-Op	Sys	10,933
CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	275
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Electronics & Communication Eq-Op	Sys	8,248
COLEMAN RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	37
COLLINS INTERNATIONAL SVC CO	Iowa	ARMY	RDTE/Electronics & Communication Eq-Op	Sys	2,894
		NAVY	RDTE/Electronics & Communication Eq-Op	Sys	1,234
		USAF	RDTE/Electronics & Communication Eq-Op	Sys	6,489
STATE TOTAL					10,617

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AC65 (CONTINUED)					
	CONTRACTOR TOTAL				\$ 15,709
	COLUMBIA UNIVERSITY	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	26,326
	COMPUTER SCIENCES CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,000
	CONAX CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	9,920
	CONTRAVES GOERZ CORPORATION	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	80
	CONTROL DATA CANADA LTD	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	85
	CONTROL DATA CORPORATION	CANADA	NAVY	RDTE/Electronics & Communication Eq-Op Sys	6,485
	CONVEX COMPUTER CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	21,906
	CUBIC COMMUNICATIONS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	25
	DAVID SARNOFF RESEARCH CENTER	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	606
	DBA SYSTEMS INC	New Jersey	NAVY	RDTE/Electronics & Communication Eq-Op Sys	124
	DIGITAL SYSTEMS GROUP INC	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	525
	DOSS AVIATION INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	400
		Alabama	ARMY	RDTE/Electronics & Communication Eq-Op Sys	3,124
		Texas	ARMY	RDTE/Electronics & Communication Eq-Op Sys	327
	CONTRACTOR TOTAL				3,451
	DRAGON SYSTEMS INC	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	390
	E BEAM DATA SYSTEMS INC	Conn	USAF	RDTE/Electronics & Communication Eq-Op Sys	40
	EER SYSTEMS CORP	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	300
	ENCORE COMPUTER CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	935
	ENGINEERING TECHNOLOGIES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	125
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	570
	EVALUATION RESEARCH CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	3,392
	FLAM & RUSSELL INC	Penn	ARMY	RDTE/Electronics & Communication Eq-Op Sys	196
	FORD AEROSPACE CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	205

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC65 (CONTINUED)

	CONTRACTOR TOTAL		USAF	RDTE/Electronics & Communication Eq-Op Sys	\$	55,254
		STATE TOTAL				55,459
		Colorado	USAF	RDTE/Electronics & Communication Eq-Op Sys		3,000-
		Kansas	ARMY	RDTE/Electronics & Communication Eq-Op Sys		8,372
						60,831
	FRIED D L ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys		91
	FUENTEZ SYSTEMS CONCEPTS INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys		387
	G E C AVIONICS LTD	UNITED KIN	USAF	RDTE/Electronics & Communication Eq-Op Sys		43
	G T E SYLVANIA COM PRODUCTS	Mass	USAF	RDTE/Electronics & Communication Eq-Op Sys		3,124
	GALAXY SCIENTIFIC CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys		296
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys		5,330
			NAVY	RDTE/Electronics & Communication Eq-Op Sys		329-
		STATE TOTAL				5,001
		Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys		11,447
						16,448
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys		578
			USAF	RDTE/Electronics & Communication Eq-Op Sys		764
		STATE TOTAL				1,342
		New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		999
			USAF	RDTE/Electronics & Communication Eq-Op Sys		906
		STATE TOTAL				1,905
		Penn	USAF	RDTE/Electronics & Communication Eq-Op Sys		3,352
						6,599
	GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Electronics & Communication Eq-Op Sys		100
	GIORDANO ASSOCIATES INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys		90
	GRUMMAN AEROSPACE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys		200

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AC65 (CONTINUED)					
			USAF	RDTE/Electronics & Communication Eq-Op Sys	\$ 975
			STATE TOTAL		1,175
	GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	562
		Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	15,646
			USAF	RDTE/Electronics & Communication Eq-Op Sys	57,907
			STATE TOTAL		73,553
			USAF	RDTE/Electronics & Communication Eq-Op Sys	74,115
			STATE TOTAL		1,796
	HARRIS CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	724
	HARVARD UNIVERSITY	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	179
	HAZELTINE CORPORATION	New York	ARMY	RDTE/Electronics & Communication Eq-Op Sys	4,199
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	4,378
			STATE TOTAL		100
	HETRA COMPUTER COMMCTIONS IND	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	194
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	242
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	7,616
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	7,858
			STATE TOTAL		283
	INFORMATION MANAGEMENT CONS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Op Sys	4,515
	INFOTEC DEVELOPMENT INC	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	2,000
	INGALLS SHIPBUILDING INC	Miss	NAVY	RDTE/Electronics & Communication Eq-Op Sys	35
	INTER NATIONAL RES INSTITUTE	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	161
	INTERMETRICS INC	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	100
		Penn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	261
			STATE TOTAL		829
	CONTRACTOR TOTAL				67
	INTERNATIONAL BUS MCHS CORP	Florida	USAF	RDTE/Electronics & Communication Eq-Op Sys	
		Hawaii	ARMY	RDTE/Electronics & Communication Eq-Op Sys	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AC65 (CONTINUED)

	Maryland	ARMY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	\$ 494 10,399-
	STATE TOTAL			9,905-
	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	5,757
	Virginia	USAF	RDTE/Electronics & Communication Eq-Op Sys	482
	CONTRACTOR TOTAL			2,770-
ITT CORPORATION	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	88
	New Jersey	ARMY NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	1,344 27,942 1,182
	STATE TOTAL			30,468
	CONTRACTOR TOTAL			30,556
J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,015
JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Electronics & Communication Eq-Op Sys	7,139
K M S FUSION INC	Michigan	NAVY	RDTE/Electronics & Communication Eq-Op Sys	108
KAPOS ASSOCIATES INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	50
LITTON SYSTEMS INC	California	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	8,749 2,264
	STATE TOTAL			11,013
	CONTRACTOR TOTAL			203,524
LOCKHEED CORPORATION	Colorado	NAVY	RDTE/Electronics & Communication Eq-Op Sys	214,537
LOGICON INC	Georgia	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,259
LORAL CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	140
M/A COM INC	New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	452
MAGNAVOX GOVT & INDSTR ELCTR	Mass	ARMY	RDTE/Electronics & Communication Eq-Op Sys	185
	Indiana	ARMY	RDTE/Electronics & Communication Eq-Op Sys	10,809

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CONTRACTOR NAME	ST/CNTRY	DEPT	-RAD DESCRIPTION-	
AC65 (CONTINUED)				
MANTECH INTERNATIONAL CORP	Arizona	ARMY	RDTE/Electronics & Communication Eq-Op Sys	\$ 1,888
MARTIN MARIETTA CORPORATION	New Mexico	USAF	RDTE/Electronics & Communication Eq-Op Sys	758
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Electronics & Communication Eq-Op Sys	35,567
MILTOPE CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	6,264
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Op Sys	164
MITEQ INC	New York	NAVY	RDTE/Electronics & Communication Eq-Op Sys	29
NORDEN SYSTEMS INC	Maryland	USAF	RDTE/Electronics & Communication Eq-Op Sys	96
P C O INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	39
PACIFIC POWER SOURCE CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	41
PENNSYLVANIA STATE UNIV INC	Penn	ARMY NAVY	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	320 44,330
				44,650
STATE TOTAL				
POLAR ASSOCIATES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	150
PRAGMATICS INC	Maryland	ARMY	RDTE/Electronics & Communication Eq-Op Sys	57
PRESEARCH INCORPORATED	Florida	NAVY	RDTE/Electronics & Communication Eq-Op Sys	792
QUANTITATIVE INC	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Op Sys	35
RADIAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	40
RAYTHEON COMPANY	Mass	NAVY USAF	RDTE/Electronics & Communication Eq-Op Sys RDTE/Electronics & Communication Eq-Op Sys	93,505 32,888
				126,393
STATE TOTAL				
RESEARCH & DEV LABORATORIES	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	171
RMS TECHNOLOGIES INCORPORATED	Penn	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,561
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	1,396
	Iowa	NAVY	RDTE/Electronics & Communication Eq-Op Sys	34
	Texas	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,879

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AC65 (CONTINUED)

CONTRACTOR TOTAL					\$
SANDERS ASSOCIATES INTERNATNL	N. H.	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,309
SCI TECHNOLOGY INC	Alabama	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	184
SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	69
SCIENTIFIC ATLANTA INC	Georgia	USAF	RDTE/Electronics & Communication	Eq-Op Sys	16,677
SEMCOR INC	New Jersey	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	727
SMITHS INDUSTRIES INC USA	Michigan	USAF	RDTE/Electronics & Communication	Eq-Op Sys	2,460
SONICRAFT INC	Illinois	USAF	RDTE/Electronics & Communication	Eq-Op Sys	630
SPARTON CORPORATION	Michigan	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	53-
SRI INTERNATIONAL	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	364
STANFORD UNIVERSITY	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	693
SUNDSTRAND DATA CONTROL INC	Washington	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	1,859
SWERLING MANASSE & SMITH INC	California	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	137
SYSCON CORPORATION	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	100
SYSTEM RESOURCES CORPORATION	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,326
SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	3,718
SYSTEMS INTEGRATION & DEV INC	California	NAVY	RDTE/Electronics & Communication	Eq-Op Sys	3,375
TECHNICAL & MGT SVCS CORP	Ohio	USAF	RDTE/Electronics & Communication	Eq-Op Sys	412
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	218
		NAVY	RDTE/Electronics & Communication	Eq-Op Sys	102
		USAF	RDTE/Electronics & Communication	Eq-Op Sys	309
			RDTE/Electronics & Communication	Eq-Op Sys	2,012
STATE TOTAL					2,423
TEXCOM INC	Maryland	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	625
	New Jersey	ARMY	RDTE/Electronics & Communication	Eq-Op Sys	300
CONTRACTOR TOTAL					925

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AC65 (CONTINUED)					
	THE ANALYTIC SCIENCE CORP	Mass	NAVY	RDTE/Electronics & Communication Eq-Op Sys	\$ 1,021
	TRACOR APPLIED SCIENCES INC	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	551
		Conn	NAVY	RDTE/Electronics & Communication Eq-Op Sys	125
	CONTRACTOR TOTAL				676
	TRI TESCO	Texas	NAVY	RDTE/Electronics & Communication Eq-Op Sys	200
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Op Sys	38,735
			NAVY	RDTE/Electronics & Communication Eq-Op Sys	6,048
			USAF	RDTE/Electronics & Communication Eq-Op Sys	58,386
	STATE TOTAL				103,169
	UNISYS CORPORATION	Minnesota	USAF	RDTE/Electronics & Communication Eq-Op Sys	12,702
		New York	USAF	RDTE/Electronics & Communication Eq-Op Sys	1,390
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Op Sys	745
	CONTRACTOR TOTAL				14,837
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Electronics & Communication Eq-Op Sys	2,182
R&D TOTAL					971,220
AC66	A P A OPTICS INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	249-
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &	300
	ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	ADVANCED RESEARCH CORPORATION	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	199
	ADVANCED TECHNOLOGY SYSTEMS	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	1,063
	ADVANCED TRACKING TECHNOLOGY	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	46
	AMBER ENGINEERING INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	315
	ANALYSIS CONSULTANTS	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	52
	APERION INC	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	50
	ARINC RESEARCH CORPORATION	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	400
	ASTRON CORPORATION	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	68

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC66 (CONTINUED)					
	ATEAM CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	730
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	190
	BDM INTERNATIONAL INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &	1,836
	BLOOM E J ASSOCIATES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	175
	BOULDER NONLINEAR SYSTEMS INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	BRIMROSE CORP OF AMERICA	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	209
	CASCADE MICROTECH INC	Oregon	USAF	RDTE/Electronics & Communication Eq-Mgmt &	99
	CENTRA TECHNOLOGY INC	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	153
	CHANG INDUSTRY INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	160
	CHEMICAL & ENVIRONMENTAL	Tennessee	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	52
	COHERENT TECHNOLOGIES INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &	38
	DAINA	Minnesota	USAF	RDTE/Electronics & Communication Eq-Mgmt &	229
	DEUTSCHE BUNDESPOST	GERMANY, F	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	6,138
	DISPLAYTECH INC	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &	55
	E TEK DYNAMICS INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	101
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	2,564
	EMCORE CORP	New Jersey	USAF	RDTE/Electronics & Communication Eq-Mgmt &	48
	ESL INCORPORATED	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	95
	FAILURE ANALYSIS ASSOCIATES	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	350
	FEI COMPANY	Oregon	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	53
	FOREIGN CARRIERS COMMUNICATION	GERMANY, F	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	1,800
	FORSS	Illinois	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	46
	FOSTER MILLER INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	189
	GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &	1,017-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AC66 (CONTINUED)

GRADIENT LENS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$	49
HONEYWELL INC	New Mexico	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		38-
HYPRES INC	New York	USAF	RDTE/Electronics & Communication Eq-Mgmt &		229
I MATH ASSOCIATES INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		250
ICE CORPORATION	Kansas	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		430
INDUSTRIAL QUALITY INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		230
INTEGRATED SOFTWARE INC	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		64
INTELLIGENT SYST TECH INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
INTERMETRICS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		208
INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		387-
JBS TECHNOLOGIES INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		383
KDT INDUSTRIES INC	Texas	USAF	RDTE/Electronics & Communication Eq-Mgmt &		50
LASER POWER CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		384
LITTON SYSTEMS INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		90
LOCUS INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		82
	Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		390
CONTRACTOR TOTAL					472
LORAL CORPORATION	Florida	USAF	RDTE/Electronics & Communication Eq-Mgmt &		58
M/A COM LINKABIT INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &		890
MAGNAVOX GOVT & INDSTRL ELCTR	New Jersey	ARMY	RDTE/Electronics & Communication Eq-Mgmt &		69
MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Electronics & Communication Eq-Mgmt &		2,315
	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		50
CONTRACTOR TOTAL					2,365
MASSA PRODUCTS CORPORATION	Mass	NAVY	RDTE/Electronics & Communication Eq-Mgmt &		434

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AC66	(CONTINUED)				
	MICROCOM CORPORATION	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	\$ 43
	OPTIECOM INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	493
	OPTRA INC	Mass	USAF	RDTE/Electronics & Communication Eq-Mgmt &	48
	PAGE AUTMTD TELECOM SYS INC	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	250
	POLYTRONIX INC	Texas	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	188
	PAZNIK A ASSOCIATES	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	30
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	180
	RADCON	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	268
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	RAMSEARCH CO	Maryland	USAF	RDTE/Electronics & Communication Eq-Mgmt &	386
	RESHET INC	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	366
	ROBOTIC VISION SYSTEMS INC	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	48
	ROME RESEARCH CORP	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	80
	SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Electronics & Communication Eq-Mgmt &	192
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY NAVY	RDTE/Electronics & Communication Eq-Mgmt & RDTE/Electronics & Communication Eq-Mgmt &	68 201
			STATE TOTAL		269
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	5,474
	SCIENTIFIC COMPUTING ASSOC	Conn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	59
	SENSIS CORPORATION	New York	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	52
	SOFTWELL ASSOCIATES INC	N.H.	USAF	RDTE/Electronics & Communication Eq-Mgmt &	100
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Electronics & Communication Eq-Mgmt &	184
	SPACE COMPUTER CORP	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC66 (CONTINUED)					
	STERLING FEDERAL SYSTEMS INC	Nebraska	USAF	RDTE/Electronics & Communication Eq-Mgmt &	10,746
	SUMMIT RESEARCH CORPORATION	Maryland	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	46
	TACAN CORPORATION	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	396
	TAU CORPORATION	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	30-
	THINKALONG SOFTWARE INC	California	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	TRW INC	California	ARMY	RDTE/Electronics & Communication Eq-Mgmt &	5,087
		Virginia	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	6,351
	CONTRACTOR TOTAL				11,438
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Electronics & Communication Eq-Mgmt &	34-
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Electronics & Communication Eq-Mgmt &	150
	UNIVERSITY OF STHERN CLFORNIA	California	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	44
	UTAH BIORESEARCH INC	Utah	USAF	RDTE/Electronics & Communication Eq-Mgmt &	49
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	50
	WINDROCK ASSOC	Tennessee	NAVY	RDTE/Electronics & Communication Eq-Mgmt &	199
	R&D TOTAL				54,928
AC91	ADVANCED STRUCTURES TECH INC	Arizona	NAVY	RDTE/Misc Hard Goods-Basic Research	49
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Misc Hard Goods-Basic Research	37
	AUTO INFO & MANAGE SYS INC	Maryland	ARMY	RDTE/Misc Hard Goods-Basic Research	425
	AVCO CORPORATION	Mass	ARMY	RDTE/Misc Hard Goods-Basic Research	473
	FIBERTEK INC	Virginia	ARMY	RDTE/Misc Hard Goods-Basic Research	168
	HONEYWELL INC	Minnesota	ARMY	RDTE/Misc Hard Goods-Basic Research	2,025
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Misc Hard Goods-Basic Research	995
	LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Misc Hard Goods-Basic Research	200
	LITTON SYSTEMS INC	California	ARMY	RDTE/Misc Hard Goods-Basic Research	438

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
AC91 (CONTINUED)					
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Misc Hard Goods-Basic Research	\$ 69
	METCUT RESEARCH ASSOCIATES	Ohio	NAVY	RDTE/Misc Hard Goods-Basic Research	47
	NORTHROP CORPORATION	California	ARMY	RDTE/Misc Hard Goods-Basic Research	1,476
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Misc Hard Goods-Basic Research	36
	SRI INTERNATIONAL	California	USAF	RDTE/Misc Hard Goods-Basic Research	43
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Misc Hard Goods-Basic Research	100
	WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY	RDTE/Misc Hard Goods-Basic Research	800
	R&D TOTAL				7,381
AC92					
	ANACHEMIA CHEMICALS INC	New York	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	65
	APPLIED RESEARCH ASSOC INC	New Mexico	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	51
	CLAMSHILL BUILDINGS INC	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	62
	EUREKA LABORATORIES INC	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	81
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	327
	LOCUS INC	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	796
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Misc Hard Goods-Exploratory Developme	319
	ODETICS INC	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	220
	OPTICAL SHIELDS LIMITED	California	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	298
	SIMULA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	392
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	838
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	90
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Misc Hard Goods-Exploratory Developme	75
	R&D TOTAL				3,614
AC93					
	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Misc Hard Goods-Advanced Development	490
	ARLINGTON TECHNICAL SERVICES	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AC93 (CONTINUED)					
	E I C LABORATORY INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	673
	EG&G WASHINGTON ANALYTICAL SVC	Virginia	NAVY	RDTE/Misc Hard Goods-Advanced Development	865
	HITTITE MICROWAVE CORPORATION	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	100
	LOCKHEED ENGINEERING & SCIENCE	Utah	ARMY	RDTE/Misc Hard Goods-Advanced Development	3,700
	LORAL CORPORATION	Arizona	ARMY	RDTE/Misc Hard Goods-Advanced Development	168
	MOTOROLA INC	Arizona	NAVY	RDTE/Misc Hard Goods-Advanced Development	1,803
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	51
	S S G INC	Mass	NAVY	RDTE/Misc Hard Goods-Advanced Development	155
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	365
	SORRENTO ELECTRONICS INC	California	NAVY	RDTE/Misc Hard Goods-Advanced Development	627
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Misc Hard Goods-Advanced Development	77
R&D TOTAL					
AC94	A A I CORPORATION	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	9,123
	AEROSPACE MASS PRPTS ANALYSIS	Penn	NAVY	RDTE/Misc Hard Goods-Engr Development	1,209
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Misc Hard Goods-Engr Development	35
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Misc Hard Goods-Engr Development	175
	BURTEK INC	Oklahoma	NAVY	RDTE/Misc Hard Goods-Engr Development	232
	CARTWRIGHT ELECTRONICS INC	Arizona	NAVY	RDTE/Misc Hard Goods-Engr Development	258
		California	NAVY	RDTE/Misc Hard Goods-Engr Development	148
	CONTRACTOR TOTAL				1,095
	CREARE INC	N.H.	NAVY	RDTE/Misc Hard Goods-Engr Development	1,243
	DIVING UNLIMITED INTERNATIONAL	California	NAVY	RDTE/Misc Hard Goods-Engr Development	498
	FOSTER MILLER INC	Florida	USAF	RDTE/Misc Hard Goods-Engr Development	60
	GENERAL ELECTRIC COMPANY	Alabama	NAVY	RDTE/Misc Hard Goods-Engr Development	499
					44,130

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC94 (CONTINUED)					
CONTRACTOR TOTAL					
	HAMMELL THOMAS J	Mass	NAVY	RDTE/Misc Hard Goods-Engr Development	\$ 14,153
	HARSCO CORPORATION	New Jersey	NAVY	RDTE/Misc Hard Goods-Engr Development	184
	I L C INDUSTRIES DELAWARE	Conn	NAVY	RDTE/Misc Hard Goods-Engr Development	58,467
		Penn	ARMY	RDTE/Misc Hard Goods-Engr Development	208
		Delaware	ARMY USAF	RDTE/Misc Hard Goods-Engr Development RDTE/Misc Hard Goods-Engr Development	866 1,021 806
STATE TOTAL					
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Misc Hard Goods-Engr Development	1,827
	MULTI ELECTRIC MFG INC	Illinois	USAF	RDTE/Misc Hard Goods-Engr Development	11,209
	NUCLEAR METALS INC	Mass	ARMY	RDTE/Misc Hard Goods-Engr Development	2,549
	SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Misc Hard Goods-Engr Development	376
	SUNOL SCIENCES CORP	California	NAVY	RDTE/Misc Hard Goods-Engr Development	894
	SYSTEMS ENGRG & MGT COMPANY	Ohio	USAF	RDTE/Misc Hard Goods-Engr Development	392
	TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Misc Hard Goods-Engr Development	678
	TVI CORPORATION	Maryland	ARMY	RDTE/Misc Hard Goods-Engr Development	1,235
	UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	NAVY	RDTE/Misc Hard Goods-Engr Development	428
R&D TOTAL					
	AC95 ANDRULIS RESEARCH CORP	Utah	ARMY	RDTE/Misc Hard Goods-Op Systems Development	5,850
	BIO RAD LABORATORIES INC	Mass	ARMY	RDTE/Misc Hard Goods-Op Systems Development	89,188
	DEVELOPMENTAL SCIENCES CORP	California	USAF	RDTE/Misc Hard Goods-Op Systems Development	899
	INTERNTNL TCHNCAL ASSOCIATES	California	NAVY	RDTE/Misc Hard Goods-Op Systems Development	51
	LOCUS INC	Penn	NAVY	RDTE/Misc Hard Goods-Op Systems Development	225
	MNEMONICS INC	Florida	NAVY	RDTE/Misc Hard Goods-Op Systems Development	55
			NAVY	RDTE/Misc Hard Goods-Op Systems Development	55
			NAVY	RDTE/Misc Hard Goods-Op Systems Development	1,203

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AC95 (CONTINUED)					
	MOTION SYSTEMS COMPANY INC	Arkansas	USAF	RDTE/Misc Hard Goods-Op Systems Developmen	\$ 1,090
	RALOID CORPORATION	Maryland	NAVY	RDTE/Misc Hard Goods-Op Systems Developmen	100
	R&D TOTAL				3,678
AC96	ARROWSMITH SHELburne	Vermont	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	AUGUST PACKAGING CO	Missouri	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	77
	CONTRAVES GOERZ CORPORATION	Penn	USAF	RDTE/Misc Hard Goods-Mgmt & Support	471
	E I C LABORATORY INC	Mass	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	54
	HEFFLEY ROBERT ENGINEERING	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	53
	INTELLIGENT AUTOMATION INC	Maryland	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	56
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	1,200
	MOLTEN SALT TECHNOLOGY INC	Tennessee	USAF	RDTE/Misc Hard Goods-Mgmt & Support	71
	MTS SYSTEMS CORPORATION	Minnesota	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	253
	MULTICORE SOLDERS INC	New York	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	35
	NORTH STAR TECH INC	Maine	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	39
	OPTIVISION INC	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	527
	PERFECT VIEW INC	N Carolina	USAF	RDTE/Misc Hard Goods-Mgmt & Support	32
	SCIENCE & APPL TECH	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Misc Hard Goods-Mgmt & Support	281
	SRS TECHNOLOGIES	California	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	60
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Misc Hard Goods-Mgmt & Support	49
	TETRA CORPORATION	New Mexico	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	55
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	1,445
	WYLE LABORATORIES	California	USAF	RDTE/Misc Hard Goods-Mgmt & Support	497
	XMCO INC	Virginia	NAVY	RDTE/Misc Hard Goods-Mgmt & Support	50

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R&D TOTAL					
AD11	CRYSTAL GROWTH & MATERIAL	Maryland	NAVY	RDTE/Ammunition-Basic Research	5,405
	GEO CENTERS INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	48
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Ammunition-Basic Research	1,103
	POWER SPECTRA INC	California	USAF	RDTE/Ammunition-Basic Research	1,636
	S F A INC	D.C.	NAVY	RDTE/Ammunition-Basic Research	223
	THIOKOL CORPORATION	Maryland	ARMY	RDTE/Ammunition-Basic Research	221
	UNIVERSITY OF DELAWARE	Delaware	USAF	RDTE/Ammunition-Basic Research	123
	UNIVERSITY OF MISSOURI	Michigan	NAVY	RDTE/Ammunition-Basic Research	80
	VERITAY TECHNOLOGY INC	New York	USAF	RDTE/Ammunition-Basic Research	26
R&D TOTAL					
AD12	A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Exploratory Development	3,610
	ALLIANCE DEVELOPMENT CORP	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	114
	ARMTEC DEFENSE PRODUCTS CO	California	ARMY	RDTE/Ammunition-Exploratory Development	6,972
	ASP CONSORTIUM	California	ARMY	RDTE/Ammunition-Exploratory Development	465
	CALSPAN CORPORATION	New York	USAF	RDTE/Ammunition-Exploratory Development	3,119
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Ammunition-Exploratory Development	708
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Ammunition-Exploratory Development	55
	CONCEPT ANALYSIS CORPORATION	Michigan	NAVY	RDTE/Ammunition-Exploratory Development	240
	DELFIN SYSTEMS	California	NAVY	RDTE/Ammunition-Exploratory Development	50
	DYNA EAST CORPORATION	Penn	ARMY	RDTE/Ammunition-Exploratory Development	50
	DYNASEN INC	California	NAVY	RDTE/Ammunition-Exploratory Development	73
	FOSTER MILLER INC	Mass	NAVY	RDTE/Ammunition-Exploratory Development	47
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Exploratory Development	58
	HONEYWELL INC	Minnesota	ARMY	RDTE/Ammunition-Exploratory Development	86
R&D TOTAL					
100					

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD12 (CONTINUED)

INCO ALLOYS INTERNATIONAL INC	W Virginia	NAVY	RDTE/Ammunition-Exploratory Development	\$	158
JAYCOR	California	NAVY	RDTE/Ammunition-Exploratory Development		30
LASERGENICS CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development		44
LUFKIN INDUSTRIES INC	Texas	NAVY	RDTE/Ammunition-Exploratory Development		750
MC Q ASSOCIATES	Virginia	NAVY	RDTE/Ammunition-Exploratory Development		190
MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Ammunition-Exploratory Development		725
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Ammunition-Exploratory Development		275
OLIN CORPORATION	Conn	NAVY	RDTE/Ammunition-Exploratory Development		94
	Illinois	ARMY	RDTE/Ammunition-Exploratory Development		208
CONTRACTOR TOTAL					302
SILICON TECHNOLOGY INC	Penn	NAVY	RDTE/Ammunition-Exploratory Development		50
STELLARTECH RESEARCH CORP	California	NAVY	RDTE/Ammunition-Exploratory Development		50
TECHNOLOGY APPLICATIONS	California	ARMY	RDTE/Ammunition-Exploratory Development		698
TOYON RESEARCH CORP	California	NAVY	RDTE/Ammunition-Exploratory Development		159
TRACORE DEVELOPMENT INC	Nebraska	ARMY	RDTE/Ammunition-Exploratory Development		303
VERITAY TECHNOLOGY INC	New York	NAVY	RDTE/Ammunition-Exploratory Development		600
R&D TOTAL					16,471
AD13 AEROJET	California	ARMY	RDTE/Ammunition-Advanced Development		3,566
AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Ammunition-Advanced Development		466
ATLANTIC RESEARCH CORPORATION	Arkansas	USAF	RDTE/Ammunition-Advanced Development		768
AVCO CORPORATION	Mass	ARMY	RDTE/Ammunition-Advanced Development		11,690
GENERAL ELECTRIC COMPANY	Maryland	ARMY	RDTE/Ammunition-Advanced Development		3,950
	Mass	ARMY	RDTE/Ammunition-Advanced Development		2,200
	Vermont	ARMY	RDTE/Ammunition-Advanced Development		138

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD13 (CONTINUED)					
	CONTRACTOR TOTAL				
	HARRIS CORPORATION	Florida	NAVY	RDTE/Ammunition-Advanced Development	6,288
	HERCULES INCORPORATED	Utah	NAVY	RDTE/Ammunition-Advanced Development	270
		W Virginia	ARMY	RDTE/Ammunition-Advanced Development	71
	CONTRACTOR TOTAL				26,002
	HONEYWELL INC	Florida	ARMY	RDTE/Ammunition-Advanced Development	26,073
		Minnesota	ARMY	RDTE/Ammunition-Advanced Development	6,243
			NAVY	RDTE/Ammunition-Advanced Development	20,985
	STATE TOTAL				165
					21,150
	CONTRACTOR TOTAL				27,393
	LELAND AES INC	Ohio	ARMY	RDTE/Ammunition-Advanced Development	100
	MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	19,152
		Maryland	ARMY	RDTE/Ammunition-Advanced Development	3,938
	CONTRACTOR TOTAL				23,090
	OLIN CORPORATION	Florida	ARMY	RDTE/Ammunition-Advanced Development	6,178
		Penn	ARMY	RDTE/Ammunition-Advanced Development	84
	CONTRACTOR TOTAL				6,262
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Ammunition-Advanced Development	370
	VALENTEC DAYRON	Florida	ARMY	RDTE/Ammunition-Advanced Development	550
	WESTERN DESIGN CORPORATION	California	ARMY	RDTE/Ammunition-Advanced Development	178
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Ammunition-Advanced Development	400
	R&D TOTAL				107,464
	AD14 A A I CORPORATION	Maryland	ARMY	RDTE/Ammunition-Engineering Development	1,433
	AEROJET	California	ARMY	RDTE/Ammunition-Engineering Development	69,993

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD14 (CONTINUED)					
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Ammunition-Engineering Development	2,737
	CONSOLIDATED INDUSTRIES	Alabama	ARMY	RDTE/Ammunition-Engineering Development	315
	CYBER OPTICS CORPORATION	Minnesota	ARMY	RDTE/Ammunition-Engineering Development	50
	EL DORADO ENGINEERING INC	Utah	ARMY	RDTE/Ammunition-Engineering Development	44
	ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Ammunition-Engineering Development	2,543
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Ammunition-Engineering Development	57
	ELECTRODYNAMICS INC	Illinois	ARMY	RDTE/Ammunition-Engineering Development	1,111
	EVEREADY BATTERY CO INC	Vermont	ARMY	RDTE/Ammunition-Engineering Development	282
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Ammunition-Engineering Development	55
	HONEYWELL INC	Florida	ARMY	RDTE/Ammunition-Engineering Development	867
		Minnesota	ARMY NAVY	RDTE/Ammunition-Engineering Development	48,310
				RDTE/Ammunition-Engineering Development	1,280
					49,590
					50,457
	CONTRACTOR TOTAL				
	INTELLIGENT MICRO SYS INC	Penn	ARMY	RDTE/Ammunition-Engineering Development	56
	MARVIN ENGINEERING CO INC	California	ARMY	RDTE/Ammunition-Engineering Development	8,423
	MOTOROLA INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development	2,108
	SCHWARTZ ELECTRO-OPTICS INC	Florida	ARMY	RDTE/Ammunition-Engineering Development	268
	SILICON DESIGNS INC	Washington	ARMY	RDTE/Ammunition-Engineering Development	50
	SPARTA INC	California	ARMY	RDTE/Ammunition-Engineering Development	1,120
	SUNDSTRAND CORPORATION	Illinois	NAVY	RDTE/Ammunition-Engineering Development	6,241
	TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Ammunition-Engineering Development	156
	VALENTEC INTERNATIONAL CORP	Florida	ARMY	RDTE/Ammunition-Engineering Development	104
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Ammunition-Engineering Development	250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AD14 (CONTINUED)						
	VISTA CONTROLS INC	California	ARMY	RDTE/Ammunition-Engineering Development	\$	250
R&D TOTAL						148,103
AD15	BARNES & REINECKE INC	BELGIUM	ARMY	RDTE/Ammunition-Operational Systems Develo		219
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Ammunition-Operational Systems Develo		165
	FABRIQUE NATIONALE HERSTAL SA	BELGIUM	ARMY	RDTE/Ammunition-Operational Systems Develo		148
	HONEYWELL INC	Penn	ARMY	RDTE/Ammunition-Operational Systems Develo		148
	LUCCHAIRE DEFENSE SA	FRANCE	ARMY	RDTE/Ammunition-Operational Systems Develo		81
	MCDONNELL DOUGLAS CORPORATION	ISRAEL	ARMY	RDTE/Ammunition-Operational Systems Develo		149
	OLIN CORPORATION	Florida	ARMY	RDTE/Ammunition-Operational Systems Develo		100
		Illinois	ARMY	RDTE/Ammunition-Operational Systems Develo		9,041
						9,141
						10,051
R&D TOTAL						1,481
AD16	BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Ammunition-Management & Support		50
	DIMENSION TECHNOLOGIES INC	New York	USAF	RDTE/Ammunition-Management & Support		881
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Ammunition-Management & Support		933
	GEO CENTERS INC	Mass	ARMY	RDTE/Ammunition-Management & Support		406
	KDI PRECISION PRODUCTS INC	Ohio	ARMY	RDTE/Ammunition-Management & Support		50
	MARBLE ASSOCIATES INC	Mass	USAF	RDTE/Ammunition-Management & Support		713
	MTA INC	Alabama	ARMY	RDTE/Ammunition-Management & Support		50
	SPECTRUM MANAGEMENT GROUP	Virginia	ARMY	RDTE/Ammunition-Management & Support		573
	WAGNER CASTINGS COMPANY	Illinois	ARMY	RDTE/Ammunition-Management & Support		5,137
R&D TOTAL						49
AD21	ABARIS	Nevada	USAF	RDTE/Services-Basic Research		55
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Basic Research		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD21 (CONTINUED)

ALLIED SIGNAL INC	Maryland	NAVY	RDTE/Services-Basic Research	\$	119
AMERICAN TELE & TELG COMPANY	N Carolina	NAVY	RDTE/Services-Basic Research		490
APTEK INC	Colorado	NAVY	RDTE/Services-Basic Research		50
ARINC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Basic Research		300
ASI SYSTEMS INTERNATIONAL	California	NAVY	RDTE/Services-Basic Research		1,502
BBN SYSTEMS & TECHNOLOGIES	Mass	NAVY	RDTE/Services-Basic Research		485
BOEING COMPANY THE	Washington	NAVY	RDTE/Services-Basic Research		37
BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Services-Basic Research		102
CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Services-Basic Research		51
COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Services-Basic Research		253
DATATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Services-Basic Research		110
DESIGN ENGINEERING INC	New Mexico	NAVY	RDTE/Services-Basic Research		65
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Services-Basic Research		5,503
ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Services-Basic Research		283
ENGINEERING COMPUTER OPTECNOMICS	Maryland	NAVY	RDTE/Services-Basic Research		116
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Basic Research		662
GEO CENTERS INC	New Jersey	ARMY	RDTE/Services-Basic Research		85
HARRIS CORPORATION	Florida	ARMY	RDTE/Services-Basic Research		329
HONEYWELL INC	Minnesota	USAF	RDTE/Services-Basic Research		70
HYPERFORMANCE ARMOR INC	California	NAVY	RDTE/Services-Basic Research		31
I A P RESEARCH INC	Ohio	USAF	RDTE/Services-Basic Research		100
I I T RESEARCH INSTITUTE	Tennessee	NAVY	RDTE/Services-Basic Research		600
INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Services-Basic Research		50
INTEGRATED SYSTEMS INC	California	ARMY	RDTE/Services-Basic Research		250

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD21 (CONTINUED)

JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Services-Basic Research	\$	351
MAC AULAY BROWN INC	Ohio	NAVY	RDTE/Services-Basic Research		69
MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Basic Research		250
MISSION RESEARCH CORPORATION	New Mexico	NAVY	RDTE/Services-Basic Research		62
NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Basic Research		1,502
PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Services-Basic Research		681
PURDUE UNIVERSITY	Indiana	NAVY	RDTE/Services-Basic Research		319
R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Basic Research		72
SABBAGH ASSOCIATES INC	Indiana	ARMY	RDTE/Services-Basic Research		85
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Services-Basic Research		700
	California	ARMY	RDTE/Services-Basic Research		2,663
CONTRACTOR TOTAL					3,363
SECTOR TECHNOLOGY INC	D.C.	ARMY	RDTE/Services-Basic Research		122
	Virginia	ARMY	RDTE/Services-Basic Research		506
CONTRACTOR TOTAL					628
SONALYSTS INC	Conn	NAVY	RDTE/Services-Basic Research		80
	Rhode Isld	NAVY	RDTE/Services-Basic Research		1,368
CONTRACTOR TOTAL					1,448
SPARTA INC	California	ARMY	RDTE/Services-Basic Research		55
SRICO OPTICAL ENGINEERING	Ohio	ARMY	RDTE/Services-Basic Research		49
SUPPORT CONTRACTING SYSTEMS	California	NAVY	RDTE/Services-Basic Research		1,852
SUSQUEHANNA RESOURCES ENVRNMT	New York	ARMY	RDTE/Services-Basic Research		250
THE ANALYTIC SCIENCE CORP	Mass	ARMY	RDTE/Services-Basic Research		450
UCE INC	Conn	ARMY	RDTE/Services-Basic Research		43

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD21	(CONTINUED)				
	UNIFIED INDUSTRIES INC	D.C.	NAVY	RDTE/Services-Basic Research	\$ 100
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Services-Basic Research	50
	R&D TOTAL				23,426
AD22	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY NAVY	RDTE/Services-Exploratory Development RDTE/Services-Exploratory Development	120 433
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Exploratory Development	553
	AQUIDNECK MGT ASSOC LTD	Rhode Isl	NAVY	RDTE/Services-Exploratory Development	278
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Exploratory Development	79
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Exploratory Development	220
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Services-Exploratory Development	139
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Services-Exploratory Development	50
	BDM INTERNATIONAL INC	New Mexico	ARMY	RDTE/Services-Exploratory Development	365
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Services-Exploratory Development	342
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Services-Exploratory Development	119
	C & M TECHNOLOGY INC	Conn	ARMY	RDTE/Services-Exploratory Development	250
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Exploratory Development	74
	COMPUTATIONAL ENGINEERING INC	Virginia	NAVY	RDTE/Services-Exploratory Development	114
	DECISION SCIENCE APPLICATIONS	Virginia	NAVY	RDTE/Services-Exploratory Development	79
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Services-Exploratory Development	471
	E P L ANALYSIS INC	Maryland	ARMY	RDTE/Services-Exploratory Development	324
	ELECTROMAGNETIC LAUNCH RES	Mass	NAVY	RDTE/Services-Exploratory Development	50
	ESL INCORPORATED	California	ARMY NAVY	RDTE/Services-Exploratory Development RDTE/Services-Exploratory Development	476- 1,116
	STATE TOTAL				640
	STATE TOTAL	California	NAVY	RDTE/Services-Exploratory Development	224

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD22 (CONTINUED)					
	FLAM & RUSSELL INC	Penn	NAVY	RDTE/Services-Exploratory Development	\$ 66
	FMC CORPORATION	Minnesota	NAVY	RDTE/Services-Exploratory Development	78
	FUKUNAGA CONSULTING CORP	Indiana	NAVY	RDTE/Services-Exploratory Development	31
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Exploratory Development	914
	GENERAL ELECTRIC COMPANY	New York	NAVY	RDTE/Services-Exploratory Development	481
	GENERAL PHYSICS CORPORATION	Florida	NAVY	RDTE/Services-Exploratory Development	1,750
	GEORGE MASON UNIVERSITY	Virginia	NAVY	RDTE/Services-Exploratory Development	83
	HADRON INC	Virginia	NAVY	RDTE/Services-Exploratory Development	51
	HONEYWELL INC	Minnesota	USAF	RDTE/Services-Exploratory Development	172
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Exploratory Development	279
	I NET INC	Maryland	NAVY	RDTE/Services-Exploratory Development	2,066
	IMAGING & SENSING TECHNOLOGY	New York	ARMY	RDTE/Services-Exploratory Development	49
	IMATRON INC	California	ARMY	RDTE/Services-Exploratory Development	300
	INTERFEROMETRICS INC	Virginia	ARMY	RDTE/Services-Exploratory Development	200
	INTERMAGNETICS GENERAL CORP	New York	NAVY	RDTE/Services-Exploratory Development	30
	LABTEK CORP	Conn	ARMY	RDTE/Services-Exploratory Development	50
	LIFE CYCLE ENGINEERING INC	Oregon	NAVY	RDTE/Services-Exploratory Development	35
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Services-Exploratory Development	309
	LOCKHEED TECHNICAL SERVICES CO	Texas	NAVY	RDTE/Services-Exploratory Development	247
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Exploratory Development	199
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Services-Exploratory Development	1,631
		New Mexico	NAVY	RDTE/Services-Exploratory Development	1,208
	CONTRACTOR TOTAL				2,839
	MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Exploratory Development	116

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD22	(CONTINUED)				
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Services-Exploratory Development	\$ 846
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Services-Exploratory Development	79
	OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Exploratory Development	76
		Conn	NAVY	RDTE/Services-Exploratory Development	35
	CONTRACTOR TOTAL				111
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Exploratory Development	342
	PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Services-Exploratory Development	54
	QUEST RESEARCH CORPORATION	Virginia	ARMY	RDTE/Services-Exploratory Development	865
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Exploratory Development	208
		NAVY	NAVY	RDTE/Services-Exploratory Development	222
	STATE TOTAL				430
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Exploratory Development	85
		Rhode Isld	NAVY	RDTE/Services-Exploratory Development	305
	CONTRACTOR TOTAL				390
	SANDERS ASSOCIATES INTERNATINL	N.H.	ARMY	RDTE/Services-Exploratory Development	431
	SCIENCE APPLICATIONS INTL CORP	Hawaii	NAVY	RDTE/Services-Exploratory Development	649
		Mass	NAVY	RDTE/Services-Exploratory Development	51
	CONTRACTOR TOTAL				700
	SOFTWARE COMPOSITIONS	Florida	ARMY	RDTE/Services-Exploratory Development	50
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Exploratory Development	219
	STERLING SOFTWARE INC	California	NAVY	RDTE/Services-Exploratory Development	29
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Services-Exploratory Development	225
	TECHNICAL & MGT SVCS CORP	New Jersey	ARMY	RDTE/Services-Exploratory Development	364
	TECHNICAL SERVICES GROUP	Ohio	USAF	RDTE/Services-Exploratory Development	473

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD22 (CONTINUED)					
	TECHNOLOGY APPLICATIONS	California	NAVY	RDTE/Services-Exploratory Development	69
	THE ANALYTIC SCIENCE CORP	Ohio	USAF	RDTE/Services-Exploratory Development	229
	TRACOR INC	Conn	NAVY	RDTE/Services-Exploratory Development	52
	TRW INC	California	NAVY	RDTE/Services-Exploratory Development	75
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Exploratory Development	112
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Services-Exploratory Development	2,064
	UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Services-Exploratory Development	878
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Services-Exploratory Development	141
	UNIVERSITY OF STHERN CLFORNIA	California	ARMY NAVY	RDTE/Services-Exploratory Development RDTE/Services-Exploratory Development	204 50
	STATE TOTAL				254
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Services-Exploratory Development	546
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Services-Exploratory Development	40
	VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Services-Exploratory Development	30
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Services-Exploratory Development	35
		Penn	NAVY	RDTE/Services-Exploratory Development	235
	CONTRACTOR TOTAL				270
	R&D TOTAL				25,084
AD23	ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Advanced Development	725
	AEPCO INC	Maryland	NAVY	RDTE/Services-Advanced Development	1,637
	ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Services-Advanced Development	365
	ALLIED SIGNAL INC	California	NAVY	RDTE/Services-Advanced Development	29
	AMERICAN SYSTEMS CORPORATION	Virginia	NAVY	RDTE/Services-Advanced Development	168
	AMMUNITION TECHNOLOGIES INC	Washington	NAVY	RDTE/Services-Advanced Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Advanced Development	2,186
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Advanced Development	100
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Advanced Development	395
	ATACS CORPORATION	California	NAVY	RDTE/Services-Advanced Development	73
	ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Services-Advanced Development	86
	ATLANTIC RESEARCH CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development	30
	BABCOCK & WILCOX COMPANY THE	Virginia	NAVY	RDTE/Services-Advanced Development	261
	BALL CORPORATION	California	USAF	RDTE/Services-Advanced Development	3,084
	BDM INTERNATIONAL INC	New Mexico	NAVY	RDTE/Services-Advanced Development	641
			USAF	RDTE/Services-Advanced Development	169
				STATE TOTAL	810
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Advanced Development	61
		Mass	NAVY	RDTE/Services-Advanced Development	1,417
					1,478
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Services-Advanced Development	4,768
	CHOPP COMPUTER INC	California	NAVY	RDTE/Services-Advanced Development	498
	CLEVELAND CRYSTALS INC	Ohio	NAVY	RDTE/Services-Advanced Development	52
	CONTROL DATA CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development	89
	CULHAM LABORATORY	UNITED KIN	ARMY	RDTE/Services-Advanced Development	611
	DATASONICS INC	Mass	NAVY	RDTE/Services-Advanced Development	50
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Services-Advanced Development	150
	ECKHART ENGINEERING ASSOCIATES	N.H.	NAVY	RDTE/Services-Advanced Development	30
	EDO CORPORATION	New York	NAVY	RDTE/Services-Advanced Development	3,013
	EG&G INC	New Mexico	NAVY	RDTE/Services-Advanced Development	217

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD23 (CONTINUED)

EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Advanced Development	\$	831
	Maryland	NAVY	RDTE/Services-Advanced Development		115
CONTRACTOR TOTAL					946
ELECTRO MAGNETIC APPLICATION	New Mexico	NAVY	RDTE/Services-Advanced Development		50
EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Services-Advanced Development		145
ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Advanced Development		337
FIBERTEK INC	Virginia	ARMY	RDTE/Services-Advanced Development		81
FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Services-Advanced Development		90
GENERAL ATOMICS	California	NAVY	RDTE/Services-Advanced Development		108-
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		244
CONTRACTOR TOTAL					136
GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development		1,123
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		510
CONTRACTOR TOTAL					1,633
GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Advanced Development		170
	New York	NAVY	RDTE/Services-Advanced Development		270
CONTRACTOR TOTAL					440
GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Advanced Development		1,694
GETTLEMAN STONER INC	Mass	ARMY	RDTE/Services-Advanced Development		94
GIORDANO ASSOCIATES INC	Florida	NAVY	RDTE/Services-Advanced Development		99
GOUGH PAUL ASSOCIATES INC	N.H.	ARMY	RDTE/Services-Advanced Development		45
HILTON SYSTEMS INC	Miss	ARMY	RDTE/Services-Advanced Development		1,587
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Advanced Development		4,251
	Rhode Isl	NAVY	RDTE/Services-Advanced Development		500

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AD23 (CONTINUED)						
	CONTRACTOR TOTAL					
	I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Services-Advanced Development		4,751
		Tennessee	NAVY	RDTE/Services-Advanced Development		615
	CONTRACTOR TOTAL					55
	INFORMATION SPECTRUM INC	New Jersey	NAVY	RDTE/Services-Advanced Development		670
	INFORMTION SYSTEMS NTRKS CORP	Ohio	USAF	RDTE/Services-Advanced Development		144
	INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Services-Advanced Development		26-
		Virginia	NAVY	RDTE/Services-Advanced Development		273
	CONTRACTOR TOTAL					1,874
	INTEGRD TEST & EVAL COOPERATV	California	NAVY	RDTE/Services-Advanced Development		2,147
	INTERFEROMETRICS INC	Virginia	NAVY	RDTE/Services-Advanced Development		1,495
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Advanced Development		258
	KPMG PEAT MARWICK	Conn	NAVY	RDTE/Services-Advanced Development		2,130
	MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Services-Advanced Development		193
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Advanced Development		50
	MARINE SPECIALTY CORP	Arkansas	NAVY	RDTE/Services-Advanced Development		900
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development		378
	MCLAUGHLIN RESEARCH CORP	Conn	NAVY	RDTE/Services-Advanced Development		393
	MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Services-Advanced Development		80
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Services-Advanced Development		258
	MING OF UTAH INC	Conn	NAVY	RDTE/Services-Advanced Development		26
	MODERN TECHNOLOGIES CORP	Ohio	ARMY	RDTE/Services-Advanced Development		41
		USAF		RDTE/Services-Advanced Development		100
	STATE TOTAL					306
						406

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD23 (CONTINUED)					
	MYSTECH ASSOCIATES INC	Conn	NAVY	RDTE/Services-Advanced Development	28
	P R B ASSOCIATES INC	Maryland	NAVY	RDTE/Services-Advanced Development	253
		Penn	NAVY	RDTE/Services-Advanced Development	75
	CONTRACTOR TOTAL				328
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Advanced Development	374
	PAR TECHNOLOGY CORPORATION	Colorado	USAF	RDTE/Services-Advanced Development	4,145
		New York	USAF	RDTE/Services-Advanced Development	2,233
	CONTRACTOR TOTAL				6,378
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Services-Advanced Development	1,061
	PEIRCE PHELPS INC	Maryland	NAVY	RDTE/Services-Advanced Development	71
	PLANNING SYSTEMS INCORPORATED	Miss	NAVY	RDTE/Services-Advanced Development	140
		Virginia	NAVY	RDTE/Services-Advanced Development	3,874
	CONTRACTOR TOTAL				4,014
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	110
	QUEST RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Advanced Development	1,125
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Advanced Development	200
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Advanced Development	317
	RADANT TECHNOLOGIES INC	Mass	NAVY	RDTE/Services-Advanced Development	343
	RADIAL CORP	New Jersey	ARMY	RDTE/Services-Advanced Development	69
	RAIL COMPANY	Virginia	ARMY	RDTE/Services-Advanced Development	3,838
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Services-Advanced Development	833
	S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Services-Advanced Development	96
	SANDERS ASSOCIATES INTERNATNL	N.H.	NAVY	RDTE/Services-Advanced Development	254
	SANDIA RESEARCH ASSOCIATES	New Mexico	NAVY	RDTE/Services-Advanced Development	58
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Services-Advanced Development	450

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD23 (CONTINUED)				
STATE TOTAL				
SONALYSTS INC	Conn	NAVY	RDTE/Services-Advanced Development	\$ 1,639
SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Services-Advanced Development	2,089
SPARTON CORPORATION	Michigan	NAVY	RDTE/Services-Advanced Development	2,039
SRS TECHNOLOGIES	New Mexico	USAF	RDTE/Services-Advanced Development	100
SYSCON CORPORATION	Conn	NAVY	RDTE/Services-Advanced Development	119
SYSTEMS CONTROL TECHNOLOGY	California	ARMY	RDTE/Services-Advanced Development	187
T S C INC	Conn	NAVY	RDTE/Services-Advanced Development	699
TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Services-Advanced Development	72
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Services-Advanced Development	128
THE ANALYTIC SCIENCE CORP	Ohio	USAF	RDTE/Services-Advanced Development	565
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Advanced Development	120
TRACOR INC	Conn	NAVY	RDTE/Services-Advanced Development	756
TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Advanced Development	478
TRW INC	California	NAVY	RDTE/Services-Advanced Development	441
				47
				70-
				173
				103
STATE TOTAL				
	Conn	NAVY	RDTE/Services-Advanced Development	30
	Virginia	NAVY	RDTE/Services-Advanced Development	1,584
				1,717
CONTRACTOR TOTAL				
UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Advanced Development	111
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Services-Advanced Development	1,450
UNITED STATES DEPT ENERGY	California	NAVY	RDTE/Services-Advanced Development	40
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Services-Advanced Development	220

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD23 (CONTINUED)					
	VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Advanced Development	\$ 941
	VIRGINIA PLTYCHNIC INST/ST UNI	Virginia	NAVY	RDTE/Services-Advanced Development	176
	VITRO CORPORATION	Penn	NAVY	RDTE/Services-Advanced Development	286
	VITRONICS INC	New Jersey	ARMY	RDTE/Services-Advanced Development	1,196
	WALLACE & CO	Indiana	USAF	RDTE/Services-Advanced Development	459-
		N Carolina	USAF	RDTE/Services-Advanced Development	90-
	CONTRACTOR TOTAL				549-
	WESTINGHOUSE ELECTRIC CORP	Penn	NAVY	RDTE/Services-Advanced Development	230
	R&D TOTAL				75,779
AD24	A G TECHNOLOGY CORP	Mass	USAF	RDTE/Services-Engineering Development	198
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Services-Engineering Development	110
			NAVY	RDTE/Services-Engineering Development	262
	STATE TOTAL				372
	ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Engineering Development	4,445
		Florida	NAVY	RDTE/Services-Engineering Development	3,425
		Virginia	NAVY	RDTE/Services-Engineering Development	217
	CONTRACTOR TOTAL				8,087
	APPLIED MEASUREMENT SYSTEMS	Conn	NAVY	RDTE/Services-Engineering Development	199
		Rhode Isld	NAVY	RDTE/Services-Engineering Development	71
	CONTRACTOR TOTAL				270
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	NAVY	RDTE/Services-Engineering Development	475
	ARETE ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development	265
	ARINC RESEARCH CORPORATION	California	NAVY	RDTE/Services-Engineering Development	252
			USAF	RDTE/Services-Engineering Development	63
	STATE TOTAL				315

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD24 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	AUTOMATED SYSTEMS INC	Ohio	USAF	RDTE/Services-Engineering Development	274
	AVCO CORPORATION	Maryland	USAF	RDTE/Services-Engineering Development	589
	BATTELLE MEMORIAL INSTITUTE	Conn	ARMY	RDTE/Services-Engineering Development	286
	BOEING COMPANY THE	Ohio	USAF	RDTE/Services-Engineering Development	5,926
	BOLT BERANEK & NEWMAN INC	Alabama	USAF	RDTE/Services-Engineering Development	210
	BUCK INDUSTRIES INC	Mass	NAVY	RDTE/Services-Engineering Development	1,286
	CAMBRIDGE ACOUSTICAL ASSOC	Maryland	NAVY	RDTE/Services-Engineering Development	635
	CHASE INC	Mass	NAVY	RDTE/Services-Engineering Development	40
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	212
	COLUMBIA RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	57
	COMPTON RESEARCH INC	California	NAVY	RDTE/Services-Engineering Development	60
	COMPUTER SOFTWARE ANALYSTS	California	USAF	RDTE/Services-Engineering Development	286
		Ohio	USAF	RDTE/Services-Engineering Development	2,652
	CONTRACTOR TOTAL				136-
	CRAFTSMEN CORP	Ohio	USAF	RDTE/Services-Engineering Development	760
	DAEDALEAN INC	Maryland	NAVY	RDTE/Services-Engineering Development	624
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Engineering Development	395
	DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Services-Engineering Development	2,112
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Services-Engineering Development	75
	EG&G WASHINGTON ANALYTICAL SVC	Conn	NAVY	RDTE/Services-Engineering Development	419
		Virginia	NAVY	RDTE/Services-Engineering Development	60
	CONTRACTOR TOTAL				904
	ESSCUBE ENGINEERING INC	New Jersey	NAVY	RDTE/Services-Engineering Development	1,578
					2,482
					435

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AD24 (CONTINUED)					
	ESSEX CORPORATION	Virginia	NAVY	RDTE/Services-Engineering Development	37
	FOSTER MILLER INC	Mass	ARMY	RDTE/Services-Engineering Development	200
	GEMMA CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development	188
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Engineering Development	3,068
		Texas	USAF	RDTE/Services-Engineering Development	3,800
	CONTRACTOR TOTAL				6,868
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Engineering Development	19,494
		New York	NAVY	RDTE/Services-Engineering Development	377
		Ohio	USAF	RDTE/Services-Engineering Development	51-
		Penn	NAVY	RDTE/Services-Engineering Development	915
		Virginia	NAVY	RDTE/Services-Engineering Development	900
	CONTRACTOR TOTAL				21,635
	GENERAL INSTRUMENT CORP DEL	New York	NAVY	RDTE/Services-Engineering Development	50
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Services-Engineering Development	433
	GENERAL SCIENTIFIC CORP	Virginia	NAVY	RDTE/Services-Engineering Development	42
	GRADIENT LENS CORPORATION	New York	ARMY	RDTE/Services-Engineering Development	280
	GUMBS ASSOCIATES INC	New Jersey	NAVY	RDTE/Services-Engineering Development	497
	HARRIS CORPORATION	Florida	NAVY	RDTE/Services-Engineering Development	451
	HENSCHEL	Mass	NAVY	RDTE/Services-Engineering Development	50
	HONEYWELL INC	California	NAVY	RDTE/Services-Engineering Development	326
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Services-Engineering Development	70
	INTEGRATED SYSTEMS ANALYSTS	Virginia	NAVY	RDTE/Services-Engineering Development	660
	INTERMETRICS INC	Penn	NAVY	RDTE/Services-Engineering Development	1,845
	KETRON INC	Penn	NAVY	RDTE/Services-Engineering Development	1,527

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD24 (CONTINUED)				
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Services-Engineering Development	\$ 2,787
LOGISTICS MANAGEMENT ENGRG	California	NAVY	RDTE/Services-Engineering Development	1,012
	Penn	NAVY	RDTE/Services-Engineering Development	2,501
CONTRACTOR TOTAL				3,513
MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Engineering Development	250
MANTECH INTERNATIONAL CORP	Penn	NAVY	RDTE/Services-Engineering Development	325
MAR INCORPORATED	Maryland	NAVY	RDTE/Services-Engineering Development	1,409
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Services-Engineering Development	31
MARTIN MARIETTA DIEHL THORN JV	Florida	ARMY	RDTE/Services-Engineering Development	27,047
MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Services-Engineering Development	240
MCLAUGHLIN RESEARCH CORP	Rhode Islnd	NAVY	RDTE/Services-Engineering Development	100
MICRO COMPUTER SYSTEM INC	Virginia	NAVY	RDTE/Services-Engineering Development	459
MING OF UTAH INC	Conn	NAVY	RDTE/Services-Engineering Development	619
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Services-Engineering Development	261
MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Services-Engineering Development	4,975
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Services-Engineering Development	3,077
NAVMAR INC	Penn	NAVY	RDTE/Services-Engineering Development	584
NICHOLS RESEARCH CORPORATION	New Mexico	ARMY	RDTE/Services-Engineering Development	887
OMNI ANALYSIS INC	Conn	NAVY	RDTE/Services-Engineering Development	397
OPTRA INC	Mass	NAVY	RDTE/Services-Engineering Development	236
ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Services-Engineering Development	336
P R B ASSOCIATES INC	Penn	NAVY	RDTE/Services-Engineering Development	165
PACER SYSTEMS INC	Penn	NAVY	RDTE/Services-Engineering Development	2,581
PLANNING RESEARCH CORPORATION	Virginia	USAF	RDTE/Services-Engineering Development	3,633

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AD24 (CONTINUED)						
	QUESTECH INC	Virginia	ARMY	RDTE/Services-Engineering Development	\$	3,600
	R B C INCORPORATED	Virginia	NAVY	RDTE/Services-Engineering Development		104
	R J O ENTERPRISES INC	Ohio	USAF	RDTE/Services-Engineering Development		529
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Services-Engineering Development		165
	SACHSE ENGINEERING ASSOCIATES	California	NAVY	RDTE/Services-Engineering Development		359
	SANDERS ASSOCIATES INTERNATINL	N.H.	NAVY	RDTE/Services-Engineering Development		75
	SCIENTIFIC RESEARCH ASSOC INC	Conn	NAVY	RDTE/Services-Engineering Development		70
	SEMCOR INC	Penn	NAVY	RDTE/Services-Engineering Development		243
	SHEARWATER INC	Conn	NAVY	RDTE/Services-Engineering Development		29
	SONALYSTS INC	Conn	NAVY	RDTE/Services-Engineering Development		2,400
	SPEARS ASSOCIATES INC	Mass	NAVY	RDTE/Services-Engineering Development		1,048
	STRUCTURED TECHNOLOGY CORP	Conn	NAVY	RDTE/Services-Engineering Development		398
	STV ENGINEERS INC	Penn	NAVY	RDTE/Services-Engineering Development		660
	SYSCON CORPORATION	Rhode Isld	NAVY	RDTE/Services-Engineering Development		150
	SYSTEM DEVELOPMENT CORPORATION	California	NAVY	RDTE/Services-Engineering Development		1,968
	T S C INC	Conn	NAVY	RDTE/Services-Engineering Development		43
	TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Services-Engineering Development		107
	THE ANALYTIC SCIENCE CORP	Mass	USAF	RDTE/Services-Engineering Development		134
		Ohio	USAF	RDTE/Services-Engineering Development		2,847
	CONTRACTOR TOTAL					2,981
	TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Engineering Development		752
		Texas	NAVY	RDTE/Services-Engineering Development		1,391
	CONTRACTOR TOTAL					2,143
	TRACOR INC	Conn	NAVY	RDTE/Services-Engineering Development		86

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD24 (CONTINUED)

TROY SYSTEMS INC	Ohio	USAF	RDTE/Services-Engineering Development	\$	267
TRW INC	Conn	NAVY	RDTE/Services-Engineering Development		639
UNISYS CORPORATION	Penn	NAVY	RDTE/Services-Engineering Development		1,416
UNITED INTERNATIONAL ENGRG	New Mexico	NAVY	RDTE/Services-Engineering Development		88
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Services-Engineering Development		72
VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Engineering Development		1,000
	Virginia	NAVY	RDTE/Services-Engineering Development		810
CONTRACTOR TOTAL					1,810
VITRO CORPORATION	Maryland	NAVY	RDTE/Services-Engineering Development		492
VSE CORPORATION	Florida	USAF	RDTE/Services-Engineering Development		2,762
WHITE H P LABORATORY INC	Maryland	ARMY	RDTE/Services-Engineering Development		1,146
WILLIAM C LINDSEY INC	Conn	NAVY	RDTE/Services-Engineering Development		213
ZEROONE SYSTEMS INC	Texas	USAF	RDTE/Services-Engineering Development		752
R&D TOTAL					144,394
AD25 ADVANCD CMBT SYSTM ENGRG	Virginia	NAVY	RDTE/Services-Operational Systems Developm		542
ADVANCE INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm		1,461
ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Operational Systems Developm		689
ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm		899
AEPCO INC	Maryland	NAVY	RDTE/Services-Operational Systems Developm		1,010
ALPHATECH INC	Mass	NAVY	RDTE/Services-Operational Systems Developm		1,409
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Services-Operational Systems Developm		1,814
	Virginia	NAVY	RDTE/Services-Operational Systems Developm		215
CONTRACTOR TOTAL					2,029
AQUIDNECK MGT ASSOC LTD	Rhode Isl	NAVY	RDTE/Services-Operational Systems Developm		60

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD25 (CONTINUED)					
	ARINC RESEARCH CORPORATION	California	USAF	RDTE/Services-Operational Systems Developm	150
		Maryland	ARMY	RDTE/Services-Operational Systems Developm	185
		Ohio	USAF	RDTE/Services-Operational Systems Developm	904
	CONTRACTOR TOTAL				1,239
	ASI SYSTEMS INTERNATIONAL	Maryland	ARMY	RDTE/Services-Operational Systems Developm	115
	ATLANTIC RESEARCH CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	845
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	3,697
	CONTRACTOR TOTAL				4,542
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Operational Systems Developm	157
	BOEING AEROSPACE & ELECTRONICS	Washington	NAVY	RDTE/Services-Operational Systems Developm	80
	BOEING COMPANY THE	Washington	NAVY	RDTE/Services-Operational Systems Developm	114
	BOLT BERANEK & NEWMAN INC	Conn	NAVY	RDTE/Services-Operational Systems Developm	173
		Mass	NAVY	RDTE/Services-Operational Systems Developm	199
	CONTRACTOR TOTAL				372
	C A E INDUSTRIES LTD	Maryland	NAVY	RDTE/Services-Operational Systems Developm	150
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Services-Operational Systems Developm	163
	COMPUTER SCIENCES CORPORATION	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	1,104
		Penn	NAVY	RDTE/Services-Operational Systems Developm	187
		Virginia	NAVY	RDTE/Services-Operational Systems Developm	7,470
	CONTRACTOR TOTAL				8,761
	CRAFTSMEN CORP	Ohio	USAF	RDTE/Services-Operational Systems Developm	32-
	DATATEC INC FORT WALTON BEACH	Florida	NAVY	RDTE/Services-Operational Systems Developm	26
	DELEX SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Services-Operational Systems Developm	316
	DYNAMICS RESEARCH CORPORATION	Rhode Isl	NAVY	RDTE/Services-Operational Systems Developm	250

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD25 (CONTINUED)					
	ELECTROSPACE SYSTEMS INC	Ohio	USAF	RDTE/Services-Operational Systems Developm	\$ 2,418
	FERRULMATIC INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	1,298
	GENERAL DYNAMICS CORPORATION	Conn	NAVY	RDTE/Services-Operational Systems Developm	130
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Services-Operational Systems Developm	5,726
		Penn	NAVY	RDTE/Services-Operational Systems Developm	526
	CONTRACTOR TOTAL				6,252
	HERSH ACOUSTICAL ENGINEERING	California	NAVY	RDTE/Services-Operational Systems Developm	50
	HUGHES AIRCRAFT COMPANY	Rhode Islnd	NAVY	RDTE/Services-Operational Systems Developm	133
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Services-Operational Systems Developm	31
	INST FOR RSRCH ON SMALL ARMS	Maryland	ARMY	RDTE/Services-Operational Systems Developm	98
	INTEGRATED MICROCOMPUTER SYS	Virginia	NAVY	RDTE/Services-Operational Systems Developm	886
	INTERMETRICS INC	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	2,896
		Penn	ARMY NAVY	RDTE/Services-Operational Systems Developm RDTE/Services-Operational Systems Developm	337 75
	CONTRACTOR TOTAL			STATE TOTAL	412
	ITT CORPORATION	Indiana	ARMY	RDTE/Services-Operational Systems Developm	3,308
	JOHNSON CONTROLS INC	Marshall I	ARMY	RDTE/Services-Operational Systems Developm	2,231
	KRUG INTERNATIONAL CORPORATION	Ohio	USAF	RDTE/Services-Operational Systems Developm	93,544
	LITTON SYSTEMS INC	California	NAVY	RDTE/Services-Operational Systems Developm	223
	MANAGEMENT CONSULTING & RES	Ohio	USAF	RDTE/Services-Operational Systems Developm	235
	MCLAUGHLIN RESEARCH CORP	Rhode Islnd	NAVY	RDTE/Services-Operational Systems Developm	360
	MODERN TECHNOLOGIES CORP	New Jersey	ARMY	RDTE/Services-Operational Systems Developm	314
		Ohio	ARMY	RDTE/Services-Operational Systems Developm	35
					762

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD25 (CONTINUED)

CONTRACTOR TOTAL		USAF	RDTE/Services-Operational Systems Developm	\$
MYSTECH ASSOCIATES INC				1,305
N T L INC				2,067
				2,102
CONTRACTOR TOTAL				50
NATIONAL SYSTEMS & RESEARCH CO				288
OMNI ANALYSIS INC				68
PACER SYSTEMS INC				356
				261
CONTRACTOR TOTAL				97
PLANNING CONSULTANTS INC				32
PLANNING RESEARCH CORPORATION				132
PRC ORI JV				164
PRINCETON SCIENTIFIC ENTRPRSS				2,134
QUESTECH INC				4,168
				1,365
CONTRACTOR TOTAL				250
R J O ENTERPRISES INC				149
RAYTHEON COMPANY				538
RAYTHEON SUPPORT SERVICES CO				687
RESOURCE CONSULTANTS INC				576
S T SYSTEMS CORPORATION				907
				59
				558
				41

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD25 (CONTINUED)

SIMMS INDUSTRIES INC	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	\$ 754
SIPPICAN INC	Mass	ARMY	RDTE/Services-Operational	Systems Developm	25
SONALYSTS INC	Conn	NAVY	RDTE/Services-Operational	Systems Developm	560
SPERRY MARINE INC	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	14
STEVENS INST OF TECHNOLOGY	New Jersey	ARMY	RDTE/Services-Operational	Systems Developm	28
STRATGIC FINANCIAL PLG SYSTEMS	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	313
SUMMIT RESEARCH CORPORATION	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	74
SVERDRUP TECHNOLOGY INC	Ohio	USAF	RDTE/Services-Operational	Systems Developm	2,118
	Tennessee	USAF	RDTE/Services-Operational	Systems Developm	816
CONTRACTOR TOTAL					2,934
SYSCON CORPORATION	Rhode Islnd	NAVY	RDTE/Services-Operational	Systems Developm	255
	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	18,814
CONTRACTOR TOTAL					19,069
SYSTEM DEVELOPMENT CORPORATION	Virginia	NAVY	RDTE/Services-Operational	Systems Developm	320
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Services-Operational	Systems Developm	261
TELEDYNE INDUSTRIES INC	Alabama	ARMY	RDTE/Services-Operational	Systems Developm	2,191
THE ANALYTIC SCIENCE CORP	Ohio	USAF	RDTE/Services-Operational	Systems Developm	778
TRACOR APPLIED SCIENCES INC	Conn	NAVY	RDTE/Services-Operational	Systems Developm	97
TRACOR MARINE INC	Florida	NAVY	RDTE/Services-Operational	Systems Developm	1,333
TRW INC	Ohio	USAF	RDTE/Services-Operational	Systems Developm	22,610
TWIN CITY TECHNICAL CASTINGS	Minnesota	USAF	RDTE/Services-Operational	Systems Developm	28
UNISYS CORPORATION	New York	NAVY	RDTE/Services-Operational	Systems Developm	184
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Services-Operational	Systems Developm	46
VEDA INCORPORATED	Penn	NAVY	RDTE/Services-Operational	Systems Developm	213

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD25 (CONTINUED)

VITRO CORPORATION	Penn	NAVY	RDTE/Services-Operational Systems Developm	\$	102
	Virginia	NAVY	RDTE/Services-Operational Systems Developm		1,305
CONTRACTOR TOTAL					1,407
WALLACE & CO	Indiana	USAF	RDTE/Services-Operational Systems Developm		5,111
WESTAR CORPORATION	New Mexico	ARMY	RDTE/Services-Operational Systems Developm		58
ZEGER ABRAMS INCORPORATED	Penn	NAVY	RDTE/Services-Operational Systems Developm		63
R&D TOTAL					208,109
AD26 ACOUSTICAL RES APPLICATION	Virginia	NAVY	RDTE/Services-Management & Support		514
ADVANCED MICROSPHERE PDTS CO	Penn	NAVY	RDTE/Services-Management & Support		53
ADVANCED TECHNOLOGY & RESEARCH	Maryland	NAVY	RDTE/Services-Management & Support		55
ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support		188
	NAVY	RDTE/Services-Management & Support			763
STATE TOTAL					951
AEROMETRICS INC	California	NAVY	RDTE/Services-Management & Support		54
ALLIED SIGNAL INC	New Jersey	NAVY	RDTE/Services-Management & Support		100
AMERICAN SUPERCONDUCTOR CORP	Mass	NAVY	RDTE/Services-Management & Support		50
AMHERST SYSTEMS INC	New York	USAF	RDTE/Services-Management & Support		735
ANADAC INC	Virginia	NAVY	RDTE/Services-Management & Support		47
ANALYTIC SERVICES INC	Colorado	USAF	RDTE/Services-Management & Support		394
ANALYTICAL SYSTEMS ENGRG CORP	Mass	USAF	RDTE/Services-Management & Support		2,475
ARGOTEC INC	Florida	NAVY	RDTE/Services-Management & Support		480
ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Services-Management & Support		30
BALL CORPORATION	California	USAF	RDTE/Services-Management & Support		150-
	Ohio	USAF	RDTE/Services-Management & Support		1,506

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AD26 (CONTINUED)						
	CONTRACTOR TOTAL				\$	1,356
	BDM INTERNATIONAL INC	Virginia	NAVY	RDTE/Services-Management & Support		628
	BOEING COMPANY THE	Penn	ARMY	RDTE/Services-Management & Support		66-
	CAPE COD RESEARCH INC	Mass	NAVY	RDTE/Services-Management & Support		491
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Services-Management & Support		51
	COMPUTER BASED SYSTEMS INC	Virginia	ARMY	RDTE/Services-Management & Support		131
	COMPUTER RESOURCE ENGRG ASSOC	Virginia	ARMY	RDTE/Services-Management & Support		39
	CONTROL DATA CORPORATION	Marshall I	ARMY	RDTE/Services-Management & Support		36-
	CRAFTSMEN CORP	New York	ARMY	RDTE/Services-Management & Support		100
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Services-Management & Support		236
	DIALOG SYSTEMS INC	Michigan	NAVY	RDTE/Services-Management & Support		203
	DIGITAL SYSTEMS RESEARCH INC	Virginia	NAVY	RDTE/Services-Management & Support		50
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Services-Management & Support		1,446
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Services-Management & Support		930
	E M I TECHNOLOGIES INC	New Mexico	ARMY	RDTE/Services-Management & Support		236
	EAGLE TECHNOLOGY INC	Virginia	ARMY	RDTE/Services-Management & Support		5,647
	FIBERTEK INC	Virginia	NAVY	RDTE/Services-Management & Support		490
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Services-Management & Support		148
	GA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Services-Management & Support		500
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Services-Management & Support		99
	GENERAL ELECTRIC COMPANY	Penn	USAF	RDTE/Services-Management & Support		502
		Marshall I	ARMY	RDTE/Services-Management & Support		25,893
	CONTRACTOR TOTAL					26,395
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Services-Management & Support		150

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD26 (CONTINUED)

GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Services-Management & Support	\$	175
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Services-Management & Support		50
GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Services-Management & Support		289
	Marshall I	ARMY	RDTE/Services-Management & Support		16,003
CONTRACTOR TOTAL					16,292
HILTON SYSTEMS INC	Alabama	ARMY	RDTE/Services-Management & Support		2,051
INFODATA SYSTEMS INC	Virginia	USAF	RDTE/Services-Management & Support		140
INFORMATION SYSTEMS CONS	Virginia	ARMY	RDTE/Services-Management & Support		116
INTERNATIONAL BUS MCHS CORP	Virginia	NAVY	RDTE/Services-Management & Support		120
KELLY PERSONNEL SERVICES INC	PANAMA	ARMY	RDTE/Services-Management & Support		714
LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Services-Management & Support		917
M S B SYSTEMS INC	Conn	NAVY	RDTE/Services-Management & Support		560
MAR INCORPORATED	Florida	NAVY	RDTE/Services-Management & Support		2,744
MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Services-Management & Support		1,904
MCS CORP	Virginia	NAVY	RDTE/Services-Management & Support		50
MEI RESEARCH	California	ARMY	RDTE/Services-Management & Support		50
MISSION SCIENCES CORP	New York	NAVY	RDTE/Services-Management & Support		742
N K F ENGINEERING INC	California	NAVY	RDTE/Services-Management & Support		389
NAVVAR INC	Penn	NAVY	RDTE/Services-Management & Support		130
NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Services-Management & Support		3,547
NEW TECHNOLOGY SUPPORT SVCS	California	NAVY	RDTE/Services-Management & Support		79
OMNI ANALYSIS INC	California	NAVY	RDTE/Services-Management & Support		51
OTTAGON SYSTEMS INC	New Jersey	NAVY	RDTE/Services-Management & Support		33
RAYTHEON COMPANY	Mass	NAVY	RDTE/Services-Management & Support		1,626

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD26 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	S W L INC	Rhode Islid	NAVY	RDTE/Services-Management & Support	38
	SCHLUMBERGER TECHNOLOGY CORP	Virginia	NAVY	RDTE/Services-Management & Support	1,664
	SCIENCE & TECHNOLOGY CORP	Michigan	USAF	RDTE/Services-Management & Support	660
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Services-Management & Support	212
	SOFTTECH INC	Virginia	ARMY	RDTE/Services-Management & Support	70
	SYSCON CORPORATION	Mass	USAF	RDTE/Services-Management & Support	3,386
	TECHNICAL & MGT SVCS CORP	California	NAVY	RDTE/Services-Management & Support	401
	TECHNICAL DOCUMENTATION INC	New Jersey	ARMY	RDTE/Services-Management & Support	570
	TEXCOM INC	Penn	NAVY	RDTE/Services-Management & Support	1,455
	THE ANALYTIC SCIENCE CORP	New Jersey	ARMY	RDTE/Services-Management & Support	100
	TRACOR APPLIED SCIENCES INC	Mass	USAF	RDTE/Services-Management & Support	63
	TRACOR INC	Texas	NAVY	RDTE/Services-Management & Support	1,226
	TRACOR TECHNOLOGY RESOURCES	Texas	NAVY	RDTE/Services-Management & Support	57
	TRW INC	Maryland	ARMY	RDTE/Services-Management & Support	200
	TSI INCORPORATED	Virginia	ARMY	RDTE/Services-Management & Support	251
	UNITED STATES DEPT OF COMMERCE	Minnesota	NAVY	RDTE/Services-Management & Support	1,249
	UNIVERSAL TECHNOLOGY CORP	D.C.	NAVY	RDTE/Services-Management & Support	41
	UNIVERSITY FACULTY ASSOCS	Ohio	USAF	RDTE/Services-Management & Support	250
	VITRO CORPORATION	Mass	NAVY	RDTE/Services-Management & Support	1,619
	WESTAR CORPORATION	Maryland	NAVY	RDTE/Services-Management & Support	47
	WESTINGHOUSE ELECTRIC CORP	New Mexico	ARMY	RDTE/Services-Management & Support	330
	ZEGER ABRAMS INCORPORATED	Maryland	NAVY	RDTE/Services-Management & Support	1,833
		Penn	NAVY	RDTE/Services-Management & Support	69
					1,000

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD32	ABIC INTL CONSULTANTS	New Jersey	ARMY	RDTE/Subsistence-Exploratory Development	48
	UNIVERSITY OF PITTSBURGH	W Virginia	NAVY	RDTE/Subsistence-Exploratory Development	29
	WESTINGHOUSE ELECTRIC CORP	Ohio	NAVY	RDTE/Subsistence-Exploratory Development	65
R&D TOTAL					
AD33	CHAMBERLAIN MANUFACTURING CORP	Illinois	NAVY	RDTE/Subsistence-Advanced Development	142
	HONEYWELL INC	Penn	USAF	RDTE/Subsistence-Advanced Development	54
R&D TOTAL					
AD36	FAAC INCORPORATED	Michigan	USAF	RDTE/Subsistence-Management & Support	46
AD41	ANAMET LABORATORIES INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	100
	CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	559
	EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	50
	FEDERAL PRISON INDUSTRIES	Kansas	NAVY	RDTE/Textiles, Clothing, Equipage-Basic Re	146
	PROTEIN POLYMER TECH INC	California	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	288
	STIRLING TECHNOLOGY CO	Washington	ARMY	RDTE/Textiles, Clothing, Equipage-Basic Re	40
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Textiles, Clothing, Equipage-Basic Re	50
R&D TOTAL					
AD42	A A I CORPORATION	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	25
	ADVANCED MATERIALS INC	Louisiana	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	649
	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	280
	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	238
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	75
	BIRDAIR STRUCTURES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	180
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	166
	CORNELL UNIVERSITY	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	285
R&D TOTAL					
					170
					65

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD42 (CONTINUED)					
	FROST ENGINEERING DEVELOPMENT	Colorado	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	77
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Textiles, Clothing, Equipage-Explor D	35
	GENESIS CONSULTANTS LTD	Delaware	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	78
		Texas	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	98
	CONTRACTOR TOTAL				176
	HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	300
	LITTLE ARTHUR D INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	1,551
	MAINSTREAM ENGINEERING CO INC	Florida	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	125
	MARTIN MARIETTA CORPORATION	Maryland	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	MATERIAL CONCEPTS INC	Ohio	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	MEMBRANE TECHNOLOGY & RESEARCH	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	64
	MINNESOTA MIN & MFG COMPANY	Minnesota	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	248
	NORTHEASTERN UNIVERSITY CORP	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	51
	PACER SYSTEMS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	205
	PERFECT VIEW INC	N Carolina	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	80
	RAPIDEX INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Explor D	164
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	80
	SRI INTERNATIONAL	California	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	162
	UNIVERSITY OF DAYTON INC	Ohio	NAVY	RDTE/Textiles, Clothing, Equipage-Explor D	100
	R&D TOTAL				5,077
	AD43 BIRDAIR STRUCTURES INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	773
	BOEING COMPANY THE	Washington	USAF	RDTE/Textiles, Clothing, Equipage-Advanced	1,420
	CHEMICAL FABRICS CORPORATION	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	65
	CONRAD TECHNOLOGIES INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	137

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD43 (CONTINUED)					
	DYNATHERM CORPORATION	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	187
	FOSTER MILLER INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	81
	GEOMET INC	Maryland	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	481-
	GETTLEMAN STONER INC	CANADA	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	26
	HOLOGRAPHIC OPTICS INC	New York	NAVY	RDTE/Textiles, Clothing, Equipage-Advanced	575
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	319
	POLAROID CORPORATION	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	370
	S TRON	California	ARMY	RDTE/Textiles, Clothing, Equipage-Advanced	561
	R&D TOTAL				4,033
AD44					
	CUSTOM MOLDERS INC	N Carolina	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	390
	GENERAL ELECTRIC COMPANY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	230
	HOECHST CELANESE CORPORATION	N Carolina	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	125
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Textiles, Clothing, Equipage-Engr Dev	5,559
	STV ENGINEERS INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Engr Dev	402
	WICKES MANUFACTURING COMPANY	California	USAF	RDTE/Textiles, Clothing, Equipage-Engr Dev	53
	R&D TOTAL				6,759
AD45					
	GEO CENTERS INC	Mass	ARMY	RDTE/Textiles, Clothing, Equipage-Op Syste	2,185
	KETRON INC	Penn	NAVY	RDTE/Textiles, Clothing, Equipage-Op Syste	349
	R&D TOTAL				2,534
AD46					
	FLIGHT TECHNOLOGY	Virginia	NAVY	RDTE/Textiles, Clothing, Equipage-Mgmt & S	48
AD51					
	A A I CORPORATION	Maryland	NAVY	RDTE/Fuels and Lubricants-Basic Research	900
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	38
	MECHANICAL TECHNOLOGY INC	New York	NAVY	RDTE/Fuels and Lubricants-Basic Research	125
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research	57

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD51 (CONTINUED)

SONOMA RESEARCH CO	California	NAVY	RDTE/Fuels and Lubricants-Basic Research	\$	50
SRI INTERNATIONAL	California	USAF	RDTE/Fuels and Lubricants-Basic Research		150
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Basic Research		516
UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Fuels and Lubricants-Basic Research		78
R&D TOTAL					1,914
AD52 BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		93
GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		202
GEO CENTERS INC	D.C.	NAVY	RDTE/Fuels and Lubricants-Exploratory Deve		515
HOWARD UNIVERSITY	D.C.	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		95
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		15
	Missouri	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		85
CONTRACTOR TOTAL					100
MECHANICAL TECHNOLOGY INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		110
PHOENIX CHEMICAL LABORATORY	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		49
ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		94
SIGNAL RESEARCH CENTER INC	Illinois	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		511
SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Exploratory Deve		585
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		530
UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		226
	Florida	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		390
	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		705
CONTRACTOR TOTAL					1,321
UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		1,203
WILLIAMS INTERNATIONAL CORP	Michigan	USAF	RDTE/Fuels and Lubricants-Exploratory Deve		97

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AD53	AEROJET	Tennessee	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	70
	EXXON RESEARCH	New Jersey	NAVY	RDTE/Fuels and Lubricants-Advanced Develop	275
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Fuels and Lubricants-Advanced Develop	127
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	2,426
	SUMMA TECHNOLOGY INC	Alabama	ARMY	RDTE/Fuels and Lubricants-Advanced Develop	40
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Fuels and Lubricants-Advanced Develop	438
R&D TOTAL					
AD55	TEXAS RESEARCH INTERNATIONAL	Texas	ARMY	RDTE/Fuels and Lubricants-Operational Syst	100
AD56	ACCELL CATALYSIS INC	Iowa	USAF	RDTE/Fuels and Lubricants-Management & Sup	411
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Fuels and Lubricants-Management & Sup	182
	PLASMA TECHNOLOGY INC	Mass	NAVY	RDTE/Fuels and Lubricants-Management & Sup	61
R&D TOTAL					
AD61	APPLIED RESEARCH CORPORATION	D.C.	NAVY	RDTE/Construction-Basic Research	654
	AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Construction-Basic Research	326
	GEO SERVICES INC	Georgia	USAF	RDTE/Construction-Basic Research	87
	LOUISIANA STATE UNIV SYSTEM	Louisiana	ARMY	RDTE/Construction-Basic Research	150
	MCDONNELL DOUGLAS CORPORATION	Florida	ARMY	RDTE/Construction-Basic Research	32
	RESEARCH TRIANGLE INSTITUTE	Georgia	USAF	RDTE/Construction-Basic Research	1,163
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Construction-Basic Research	37
R&D TOTAL					
AD62	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Construction-Exploratory Development	120
	FLEX ENTERPRISES INC	New York	ARMY	RDTE/Construction-Exploratory Development	1,915
	GEO CENTERS INC	Mass	ARMY	RDTE/Construction-Exploratory Development	200
	HORIZONS TECHNOLOGY INC	California	ARMY	RDTE/Construction-Exploratory Development	177
					320
					60

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD62 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Construction-Exploratory Development	25
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Construction-Exploratory Development	180
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Construction-Exploratory Development	108
	SCIENCE APPLICATIONS INTL CORP	D.C.	NAVY	RDTE/Construction-Exploratory Development	871
	SONALYSTS INC	Rhode Isld	NAVY	RDTE/Construction-Exploratory Development	50
	TECHNICAL DOCUMENTATION INC	Penn	NAVY	RDTE/Construction-Exploratory Development	130
	TRW INC	California	NAVY	RDTE/Construction-Exploratory Development	395
	UNIVERSITY OF STHERN CLFORNIA	California	ARMY	RDTE/Construction-Exploratory Development	1,949
	R&D TOTAL				4,465
AD63	ALLIED SIGNAL INC	New Jersey	ARMY	RDTE/Construction-Advanced Development	94
	BBN SYSTEMS & TECHNOLOGIES	Mass	NAVY	RDTE/Construction-Advanced Development	98
	DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Construction-Advanced Development	35
	EDWARDS CMMNCTIONS ELC OPTIONS	Virginia	ARMY	RDTE/Construction-Advanced Development	250
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Construction-Advanced Development	368
	LAWRENCE LIVERMORE LABORATORY	California	USAF	RDTE/Construction-Advanced Development	244
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Construction-Advanced Development	4,172
	MOTOROLA INC	Arizona	ARMY	RDTE/Construction-Advanced Development	75
	RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Construction-Advanced Development	75
	ROCKWELL INTERNATIONAL CORP	Penn	NAVY	RDTE/Construction-Advanced Development	365
	SRI INTERNATIONAL	California	ARMY	RDTE/Construction-Advanced Development	74
	TRW INC	California	NAVY	RDTE/Construction-Advanced Development	120
	UNITED STATES DEPT ENERGY	Washington	USAF	RDTE/Construction-Advanced Development	50
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Advanced Development	142
	R&D TOTAL				6,162

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD64	DBA SYSTEMS INC	Florida	ARMY	RDTE/Construction-Engineering Development	\$ 322
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Engineering Development	800
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Engineering Development	101
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Construction-Engineering Development	100
	R&D TOTAL				1,323
AD65	AMERICAN TELE & TELG COMPANY	N Carolina	ARMY	RDTE/Construction-Operational Systems Deve	394
	AT&T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Construction-Operational Systems Deve	1,770
	GRUPO JIL S A	PANAMA	ARMY	RDTE/Construction-Operational Systems Deve	294
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Construction-Operational Systems Deve	1,089
	MAC AULAY BROWN INC	Ohio	USAF	RDTE/Construction-Operational Systems Deve	150
	PACIFIC SIERRA RESEARCH CORP	New Mexico	ARMY	RDTE/Construction-Operational Systems Deve	530
	PITT DES MOINES INC	Penn	NAVY	RDTE/Construction-Operational Systems Deve	135
	UNISYS CORPORATION	Virginia	NAVY	RDTE/Construction-Operational Systems Deve	626
	VITRO CORPORATION	Penn	NAVY	RDTE/Construction-Operational Systems Deve	134
	R&D TOTAL				5,122
AD66	JAYCOR	Virginia	NAVY	RDTE/Construction-Management & Support	100
	LOCUS INC	Penn	NAVY	RDTE/Construction-Management & Support	251
	NORTH AMERICAN PHILIPS CORP	D.C.	NAVY	RDTE/Construction-Management & Support	70
	PARTICLE TECHNOLOGY INC	Maryland	ARMY	RDTE/Construction-Management & Support	50
	SABRE SYSTEMS INC	Penn	NAVY	RDTE/Construction-Management & Support	167
	R&D TOTAL				638
AD91	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Defense-Basic Research	52
	ABARIS	Nevada	NAVY	RDTE/Other Defense-Basic Research	50
	ABTECH CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research	49
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Defense-Basic Research	50
	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Basic Research	42

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

ADVANCE ENVIRONMENT RESEARCH	Virginia	ARMY	RDTE/Other Defense-Basic Research	\$	55
ADVANCED DECISION SYSTEMS	California	NAVY	RDTE/Other Defense-Basic Research		75
ADVANCED RESOURCE DEV CORP	Maryland	NAVY	RDTE/Other Defense-Basic Research		238
ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		1,200
ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other Defense-Basic Research		320
AERODYNE RESEARCH INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research		310
AEROJET SOLID PROPULSION	California	NAVY	RDTE/Other Defense-Basic Research		102
AEROLIFT INC	Texas	USAF	RDTE/Other Defense-Basic Research		49
AGOURON INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research		75
ALLIED SIGNAL AEROSPACE CO	California	NAVY	RDTE/Other Defense-Basic Research		827
	D.C.	NAVY	RDTE/Other Defense-Basic Research		652
	Maryland	NAVY	RDTE/Other Defense-Basic Research		6,025
					7,504
CONTRACTOR TOTAL					
ALLIED SIGNAL INC	Illinois	NAVY	RDTE/Other Defense-Basic Research		65
	Maryland	NAVY	RDTE/Other Defense-Basic Research		100
	N Carolina	NAVY	RDTE/Other Defense-Basic Research		80
					245
CONTRACTOR TOTAL					
AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Defense-Basic Research		425
AMERICAN MAGNETICS INC	Tennessee	NAVY	RDTE/Other Defense-Basic Research		484
AMERICAN MATRIX INC	Tennessee	NAVY	RDTE/Other Defense-Basic Research		54
AMERICAN TELE & TELG COMPANY	New Mexico	NAVY	RDTE/Other Defense-Basic Research		100
AMHERST SYSTEMS INC	New York	USAF	RDTE/Other Defense-Basic Research		110
ANALYTIC POWER CORP	Mass	USAF	RDTE/Other Defense-Basic Research		407
ANALYTICAL METHODS INC	Washington	NAVY	RDTE/Other Defense-Basic Research		251

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	ANALYTICAL SYSTEMS ENGRG CORP	Nebraska	USAF	RDTE/Other Defense-Basic Research	325
	ANALYTIX ELECTRONIC SYSTEMS	N.H.	NAVY	RDTE/Other Defense-Basic Research	8,047
	ANAMET LABORATORIES INC	California	ARMY	RDTE/Other Defense-Basic Research	49
	APPLIED ORDNANCE TECHNOLOGY	Maryland	NAVY	RDTE/Other Defense-Basic Research	746
	APPLIED RESEARCH ASSOC INC	N Carolina	USAF	RDTE/Other Defense-Basic Research	64
	APTEK INC	Colorado	ARMY	RDTE/Other Defense-Basic Research	47
	ARDAK CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	2,329
	ARETE ASSOCIATES	California	NAVY	RDTE/Other Defense-Basic Research	1,949
		Virginia	NAVY	RDTE/Other Defense-Basic Research	300
	CONTRACTOR TOTAL				2,249
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Defense-Basic Research	117
	ASSOC OF CAPE COD	Mass	NAVY	RDTE/Other Defense-Basic Research	102
	ASSOCIATED UNIVERSITIES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research	50
		New York	NAVY	RDTE/Other Defense-Basic Research	247
	CONTRACTOR TOTAL				297
	ASSURANCE TECHNOLOGY CORP	Florida	NAVY	RDTE/Other Defense-Basic Research	300
		Mass	NAVY	RDTE/Other Defense-Basic Research	7,635
	CONTRACTOR TOTAL				7,935
	ASTRON CORPC"ATION	Virginia	USAF	RDTE/Other Defense-Basic Research	380
	ASTRONAUTICS CORP AMERICA	Wisconsin	USAF	RDTE/Other Defense-Basic Research	135
	AT&T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research	1,669
	ATLANTIC RESEARCH CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	658
	AUSTIN RESEARCH ASSOCIATES	Texas	NAVY	RDTE/Other Defense-Basic Research	130
	AWARE INC	Mass	NAVY	RDTE/Other Defense-Basic Research	470

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	B K TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	419
	B W TECHNOLOGY INCORPORATION	Ohio	USAF	RDTE/Other Defense-Basic Research	44
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Defense-Basic Research	157
	BARRON ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	280
	BATTELLE MEMORIAL INSTITUTE	Ohio	NAVY	RDTE/Other Defense-Basic Research	155
	BDM INTERNATIONAL INC	California	NAVY	RDTE/Other Defense-Basic Research	150
		Virginia	ARMY	RDTE/Other Defense-Basic Research	1,173
			NAVY	RDTE/Other Defense-Basic Research	1,798
					2,971
				STATE TOTAL	3,121
	CONTRACTOR TOTAL				77
	BELL COMMUNICATIONS RESEARCH	New Jersey	NAVY	RDTE/Other Defense-Basic Research	
	BIOELASTICS RESEARCH LTD	Alabama	NAVY	RDTE/Other Defense-Basic Research	163
	BIOPHOTONICS	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	233
	BIOTRONICS TECHNOLOGIES INC	Wisconsin	NAVY	RDTE/Other Defense-Basic Research	50
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Other Defense-Basic Research	3,374
	BOEING COMPANY THE	California	ARMY	RDTE/Other Defense-Basic Research	233
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Defense-Basic Research	2,419
	BOSTON UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	283
	BRIGHAM YOUNG UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Basic Research	254
	BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	1,440
	BRUNSWICK CORPORATION	Florida	ARMY	RDTE/Other Defense-Basic Research	1,311
	C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Defense-Basic Research	300
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	2,592
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research	122

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	CALIFRNIA MNITIONS DEV COMPANY	California	ARMY	RDTE/Other Defense-Basic Research	50
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Basic Research	1,163
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	131
	CAMPBELL ENGINEERING INC	Alabama	ARMY	RDTE/Other Defense-Basic Research	543
	CANDELA LASER CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	CAPE COD RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Basic Research	80
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Defense-Basic Research	1,802
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Basic Research	143
			NAVY	RDTE/Other Defense-Basic Research	1,950
			USAF	RDTE/Other Defense-Basic Research	2,071
					4,164
	STATE TOTAL				
	CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Other Defense-Basic Research	129
	CATERPILLAR INC	Illinois	ARMY	RDTE/Other Defense-Basic Research	167
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Defense-Basic Research	232
	CENTURY TECHNOLOGIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	160
	CERA INC	Mass	ARMY	RDTE/Other Defense-Basic Research	47
	CHEMETEK	Oregon	ARMY	RDTE/Other Defense-Basic Research	70
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Other Defense-Basic Research	438
	CITY UNIVERSITY OF NY INC	New York	NAVY	RDTE/Other Defense-Basic Research	80
	CLARKSON UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	34
	COLORADO SCHOOL OF MINES	Colorado	NAVY	RDTE/Other Defense-Basic Research	135
	COLORADO STATE UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research	772
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	393
	COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Defense-Basic Research	104
	COMPUTER COMMAND CTRL COMPANY	Penn	NAVY	RDTE/Other Defense-Basic Research	96

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Basic Research	1,601
	COMPUTERVISION CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	46
	CONTINENTAL SYSTEMS TECHNOLOGY	Georgia	USAF	RDTE/Other Defense-Basic Research	50
	COORDINATING RESEARCH COUNCIL	Georgia	ARMY	RDTE/Other Defense-Basic Research	80
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Basic Research	44
	CORDEC CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	249
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Basic Research	269
			NAVY	RDTE/Other Defense-Basic Research	921
		STATE TOTAL			1,190
	CORNING INC	New York	NAVY	RDTE/Other Defense-Basic Research	528
	CORTICON INC	Penn	NAVY	RDTE/Other Defense-Basic Research	49
	CREE RESEARCH INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research	720
	CRYOPHARM	California	NAVY	RDTE/Other Defense-Basic Research	375
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Basic Research	61
	DARTMOUTH COLLEGE	N.H.	NAVY	RDTE/Other Defense-Basic Research	1,076
	DATA COMPUTER CORP OF AMERICA	Maryland	NAVY	RDTE/Other Defense-Basic Research	150
	DAVID SARNOFF RESEARCH CENTER	New Jersey	NAVY	RDTE/Other Defense-Basic Research	107
	DCS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	245
	DEACON RESEARCH	California	NAVY	RDTE/Other Defense-Basic Research	75
	DECISION SCIENCE CONSORTIUM	Virginia	NAVY	RDTE/Other Defense-Basic Research	79
	DECISION SYSTEMS TECH INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	732
	DEFENSE GROUP INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	239
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	1,527
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Basic Research	336

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD91 (CONTINUED)

DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research		445
		USAF	RDTE/Other Defense-Basic Research		51
DU PONT E I DE NMOURS COMPANY	Delaware	NAVY	RDTE/Other Defense-Basic Research		496
DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Basic Research		410
DYNAFLOW INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		95
DYNAMICS TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research		45
E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Basic Research		1,157
	Tennessee	NAVY	RDTE/Other Defense-Basic Research		100-
					50
					50-
CONTRACTOR TOTAL					55
E I C LABORATORY INC	Mass	NAVY	RDTE/Other Defense-Basic Research		85
E OIR MEASUREMENTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		153
E P L ANALYSIS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research		250
E SYSTEMS INC	Texas	ARMY	RDTE/Other Defense-Basic Research		200
EASTMAN KODAK COMPANY	New York	NAVY	RDTE/Other Defense-Basic Research		45
ECON INC	Virginia	USAF	RDTE/Other Defense-Basic Research		45
EDUCATIONAL TESTING SERVICE	New Jersey	NAVY	RDTE/Other Defense-Basic Research		35
EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Basic Research		61
EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Basic Research		244
ELECTRO OPTICAL SCIENCES INC	New York	NAVY	RDTE/Other Defense-Basic Research		205
ELECTROCHIMICA CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		329
ELECTRONIC WARFARE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Basic Research		50
EMEC CONSULTANTS	Penn	NAVY	RDTE/Other Defense-Basic Research		154
EMORY UNIVERSITY	Georgia	NAVY	RDTE/Other Defense-Basic Research		

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AD91 (CONTINUED)					
	ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Basic Research	88
	ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Defense-Basic Research	1,205
	ERDAS INC	Georgia	ARMY	RDTE/Other Defense-Basic Research	99
	FAAC INCORPORATED	Penn	USAF	RDTE/Other Defense-Basic Research	50
	FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	3,763
	FERRANTI INSTRUMENTATION LTD	UNITED KIN	NAVY	RDTE/Other Defense-Basic Research	100
	FIBERTEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	50
	FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Basic Research	66
	FLOUROCHEM INC	California	NAVY	RDTE/Other Defense-Basic Research	722
	FLOW INDUSTRIES INC	Washington	NAVY	RDTE/Other Defense-Basic Research	383
	FLOW SCIENCE INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research	60
	FORD AEROSPACE CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	142
	FOSTER MILLER INC	Mass	NAVY	RDTE/Other Defense-Basic Research	556
	FRIED D L ASSOCIATES INC	California	NAVY	RDTE/Other Defense-Basic Research	150
	FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Basic Research	607
	G R ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	75
	GENERAL ATOMICS	California	NAVY	RDTE/Other Defense-Basic Research	44
		USAF	RDTE/Other Defense-Basic Research	493	
	STATE TOTAL				537
	GENERAL DYNAMICS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	180
		Conn	NAVY	RDTE/Other Defense-Basic Research	25
	CONTRACTOR TOTAL				205
	GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other Defense-Basic Research	140
		Mass	NAVY	RDTE/Other Defense-Basic Research	346

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD91 (CONTINUED)

HARVARD UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research	\$	1,601
HAZELTINE CORPORATION	New York	USAF	RDTE/Other Defense-Basic Research		490
HEALTH RESEARCH INC	New York	NAVY	RDTE/Other Defense-Basic Research		113
HELICON FOUNDATION THE	California	NAVY	RDTE/Other Defense-Basic Research		105
HLR SCIENCES INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research		141
HNC INC	California	USAF	RDTE/Other Defense-Basic Research		50
HONEYWELL INC	Florida	NAVY	RDTE/Other Defense-Basic Research		198
	Minnesota	ARMY	RDTE/Other Defense-Basic Research		48
		NAVY	RDTE/Other Defense-Basic Research		1,001
		USAF	RDTE/Other Defense-Basic Research		60
	STATE TOTAL				1,109
					1,307
					268
HORIZON TECHNOLOGY	W Virginia	NAVY	RDTE/Other Defense-Basic Research		250
HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Basic Research		497
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Other Defense-Basic Research		7,822
		USAF	RDTE/Other Defense-Basic Research		8,319
	STATE TOTAL				522
HUGHES ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		375
HUMRRO INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		100
		NAVY	RDTE/Other Defense-Basic Research		475
	STATE TOTAL				162
HURD HARRY L ASSOCIATES INC	N Carolina	NAVY	RDTE/Other Defense-Basic Research		62
HVS TECHNOLOGIES	Penn	NAVY	RDTE/Other Defense-Basic Research		114
HYPRES INC	New York	NAVY	RDTE/Other Defense-Basic Research		343
I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Basic Research		95
I W G CORP	California	NAVY	RDTE/Other Defense-Basic Research		

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	IBIS TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	48
	ICECASTING INC	Washington	NAVY	RDTE/Other Defense-Basic Research	105
	ICI COMPOSITES	Arizona	NAVY	RDTE/Other Defense-Basic Research	223
	IMT INC	Maryland	USAF	RDTE/Other Defense-Basic Research	
	INDIANA UNIVERSITY FOUNDATION	Indiana	NAVY	RDTE/Other Defense-Basic Research	232
	INFORMATION PLANNING ASSOC	Virginia	NAVY	RDTE/Other Defense-Basic Research	280
	INNOVATIVE CONCEPTS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	775
	INNOVATIVE SOLUTIONS FROM ADVA	Virginia	NAVY	RDTE/Other Defense-Basic Research	50
	INSTRUMENTS S A INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	355
	INTERMETRICS INC	Penn	NAVY	RDTE/Other Defense-Basic Research	180
	INTERNATIONAL BUS MCHS CORP	California	NAVY	RDTE/Other Defense-Basic Research	496
		D.C.	NAVY	RDTE/Other Defense-Basic Research	5,013
		New York	NAVY	RDTE/Other Defense-Basic Research	963
		Virginia	NAVY	RDTE/Other Defense-Basic Research	952
	CONTRACTOR TOTAL				7,424
	INTRASPACE CORPORATION	Utah	NAVY	RDTE/Other Defense-Basic Research	1,343
	IOWA STATE UNIV SCNC	Iowa	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	168 39
	ITT CORPORATION	STATE TOTAL			207
		Indiana	USAF	RDTE/Other Defense-Basic Research	180
		New Jersey	USAF	RDTE/Other Defense-Basic Research	40
	CONTRACTOR TOTAL				220
	J & D SCIENTIFIC INC	Arizona	NAVY	RDTE/Other Defense-Basic Research	50
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Other Defense-Basic Research	184

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AD91 (CONTINUED)					
	JAMIESON SCIENCE & ENGINEERING	Maryland	NAVY	RDTE/Other Defense-Basic Research	\$ 212
	JAYCOR	Virginia	NAVY	RDTE/Other Defense-Basic Research	175
	JBS TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	47
	JIL SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	250
	JOHNS HOPKINS UNIVERSITY	Maryland	NAVY	RDTE/Other Defense-Basic Research	909
	KANSAS STATE UNIVERSITY	Kansas	NAVY	RDTE/Other Defense-Basic Research	61
	KELLOGG M W COMPANY THE	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	KENT STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Basic Research	250
	KENTUCKY MEDICAL RES & DEV	Kentucky	NAVY	RDTE/Other Defense-Basic Research	200
	KESTREL INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	70
	KINZUID	New York	NAVY	RDTE/Other Defense-Basic Research	262
	KOPIN CORPORATION	Mass	NAVY	RDTE/Other Defense-Basic Research	652
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Basic Research	164
	L N K CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research	296
	LA JOLLA INSTITUTE	California	NAVY	RDTE/Other Defense-Basic Research	175
	LANXIDE CORP	Delaware	NAVY	RDTE/Other Defense-Basic Research	228
	LASER POWER CORP	California	NAVY	RDTE/Other Defense-Basic Research	49
	LASERGENICS CORPORATION	California	ARMY	RDTE/Other Defense-Basic Research	140
	LAWRENCE LIVERMORE LABORATORY	California	NAVY	RDTE/Other Defense-Basic Research	40
	LEARMONTH BURCHETT MGT SYSTEMS	Texas	NAVY	RDTE/Other Defense-Basic Research	50
	LECTRO MECHANICAL DESIGN	Virginia	NAVY	RDTE/Other Defense-Basic Research	45
	LEHIGH UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Basic Research	110
	LEPTON INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	72
	LIFE CELL CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	279

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AD91 (CONTINUED)					
	LITTON SYSTEMS INC	California	ARMY	RDTE/Other Defense-Basic Research	\$ 350
		Georgia	ARMY	RDTE/Other Defense-Basic Research	100
		New Jersey	NAVY	RDTE/Other Defense-Basic Research	140
	CONTRACTOR TOTAL				590
	LOCKHEED CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	126
		N.H.	USAF	RDTE/Other Defense-Basic Research	101
	CONTRACTOR TOTAL				227
	LOCKHEED TECHNICAL SERVICES CO	California	ARMY	RDTE/Other Defense-Basic Research	1,400
			NAVY	RDTE/Other Defense-Basic Research	899
	STATE TOTAL				2,299
	LOGICON INC	Ohio	USAF	RDTE/Other Defense-Basic Research	515
	LORAL CORPORATION	Ohio	NAVY	RDTE/Other Defense-Basic Research	286
	LOYOLA UNIVERSITY OF CHICAGO	Illinois	NAVY	RDTE/Other Defense-Basic Research	51
	LUTRONIX INC	California	NAVY	RDTE/Other Defense-Basic Research	25
	M C R TECHNOLOGY CORP	Illinois	NAVY	RDTE/Other Defense-Basic Research	236
	M M R TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Basic Research	130
	MAC AULAY BROWN INC	Ohio	ARMY	RDTE/Other Defense-Basic Research	30
			USAF	RDTE/Other Defense-Basic Research	3,193
	STATE TOTAL				3,223
	MAGNAVOX GOVT & INDSTRL ELCTR	Virginia	NAVY	RDTE/Other Defense-Basic Research	75
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	53
	MARBLE ASSOCIATES INC	Mass	NAVY	RDTE/Other Defense-Basic Research	250
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Other Defense-Basic Research	186
		D.C.	NAVY	RDTE/Other Defense-Basic Research	105
		Maryland	NAVY	RDTE/Other Defense-Basic Research	159

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	MARTINGALE RESEARCH CORP	Texas	NAVY	RDTE/Other Defense-Basic Research	450
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	49 6,914 30
			STATE TOTAL		6,944
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Defense-Basic Research	75
	MATHTECH INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	37
	MBR RESEARCH INC	New Jersey	NAVY	RDTE/Other Defense-Basic Research	50
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	1,896
	MCPHEE RESEARCH CO	Washington	NAVY	RDTE/Other Defense-Basic Research	94
	MEDICAL COLLEGE OF PA	Penn	NAVY	RDTE/Other Defense-Basic Research	26
	MEHARRY MEDICAL COLLEGE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	27
	MEMPHIS STATE UNIVERSITY	Tennessee	NAVY	RDTE/Other Defense-Basic Research	55
	MEMRY CORPORATION	Conn	NAVY	RDTE/Other Defense-Basic Research	75
	MENTOR GRAPHICS CORPORATION	Oregon	NAVY	RDTE/Other Defense-Basic Research	341
	MERIT TECHNOLOGY INC	Texas	USAF	RDTE/Other Defense-Basic Research	47
	MERRIFIELD LABORATORIES INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	92
	METRATEK INC	Virginia	NAVY	RDTE/Other Defense-Basic Research	238
	METROLASER	California	NAVY	RDTE/Other Defense-Basic Research	50
	METSAT INC	Colorado	NAVY	RDTE/Other Defense-Basic Research	222
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Basic Research	56
	MICHIGAN STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research	232
	MICHIGAN TECHNOLOGICAL UNIVERSITY	Michigan	ARMY	RDTE/Other Defense-Basic Research	228
	MICROELECTRONICS	Texas	ARMY	RDTE/Other Defense-Basic Research	244

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	NAVY	RDTE/Other Defense-Basic Research	\$
AD91 (CONTINUED)							
	MINNESOTA MIN & MFG COMPANY	Minnesota	NAVY	RDTE/Other Defense-Basic Research			661
			USAF	RDTE/Other Defense-Basic Research			905
							285
							187
							472
	MNEMONICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research			327
	MONTANA STATE UNIVERSITY	Montana	NAVY	RDTE/Other Defense-Basic Research			83
	MONTEREY BAY AQUARIUM RESEARCH	California	NAVY	RDTE/Other Defense-Basic Research			76
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Basic Research			571
	NATIONAL SCIENCE FOUNDATION	D.C.	NAVY	RDTE/Other Defense-Basic Research			1,462
	NATIONAL SECURITY RESEARCH	Virginia	NAVY	RDTE/Other Defense-Basic Research			93
	NATIONAL TECHNICAL UNIVERSITY	Colorado	NAVY	RDTE/Other Defense-Basic Research			70
	NESTOR INC	Rhode Isl	NAVY	RDTE/Other Defense-Basic Research			1,200
	NETROLOGIC INC	California	NAVY	RDTE/Other Defense-Basic Research			50
	NEUROGEN LABS INC	Mass	NAVY	RDTE/Other Defense-Basic Research			50
	NEUROSCIENCES RES FOUNDATION	New York	NAVY	RDTE/Other Defense-Basic Research			200
	NEW HAMPSHIRE UNIVERSITY SYS	N.H.	NAVY	RDTE/Other Defense-Basic Research			100
	NEW MEXICO STATE UNIVERSITY	New Mexico	NAVY	RDTE/Other Defense-Basic Research			27-
	NEW YORK BLOOD CENTER INC	New York	NAVY	RDTE/Other Defense-Basic Research			105
	NEW YORK UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research			163
	NORTH CAROLINA A&T UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research			238
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Basic Research			2,513
	NORTHEASTERN UNIVERSITY CORP	Mass	NAVY	RDTE/Other Defense-Basic Research			232
	NORTHROP CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research			450
			USAF	RDTE/Other Defense-Basic Research			900

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD91 (CONTINUED)					
		STATE TOTAL			\$ 1,350
	NORTHWEST RESEARCH ASSOCIATES	Washington	NAVY	RDTE/Other Defense-Basic Research	156
	NORTHWEST RSCH ASSOC INC	Washington	NAVY	RDTE/Other Defense-Basic Research	624
	NORTHWESTERN UNIVERSITY	Illinois	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	416 36
		STATE TOTAL			452
	NOVA UNIVERSITY INC	Florida	NAVY	RDTE/Other Defense-Basic Research	63
	NU TECH	Maryland	USAF	RDTE/Other Defense-Basic Research	495
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Basic Research	299
	OHIO STATE UNIVERSITY	Ohio	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	142 190 71
		STATE TOTAL			403
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Basic Research	95
	OLD DMNION UNIV RES FUNDATION	Virginia	NAVY	RDTE/Other Defense-Basic Research	368
	OMEGA P INC	Conn	NAVY	RDTE/Other Defense-Basic Research	32-
	OMNET INC	Mass	NAVY	RDTE/Other Defense-Basic Research	48
	ONEIDA RESOURCES INC	Ohio	USAF	RDTE/Other Defense-Basic Research	741
	OPTELECOM INC	Maryland	ARMY	RDTE/Other Defense-Basic Research	148
	OPTICAL INSTRUMENTS CORP	Mass	NAVY	RDTE/Other Defense-Basic Research	50
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Basic Research	428
	OPTICOMP CORPORATION	Nevada	NAVY	RDTE/Other Defense-Basic Research	832
	OPTIVISION INC	California	NAVY	RDTE/Other Defense-Basic Research	231
	OREGON STATE UNIVERSITY	Oregon	NAVY	RDTE/Other Defense-Basic Research	1,558
	ORINCON CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	449

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

		USAF	RDTE/Other	Defense-Basic	Research	\$
STATE TOTAL						
QUADRA ENGINEERING INC	Mass	NAVY	RDTE/Other	Defense-Basic	Research	37
QUANTEL INTERNATIONAL INC	California	NAVY	RDTE/Other	Defense-Basic	Research	988
QUARTEC INC	Nebraska	NAVY	RDTE/Other	Defense-Basic	Research	50
QUESTECH INC	Penn	NAVY	RDTE/Other	Defense-Basic	Research	74
	Virginia	NAVY	RDTE/Other	Defense-Basic	Research	50
		NAVY	RDTE/Other	Defense-Basic	Research	135
		NAVY	RDTE/Other	Defense-Basic	Research	490
		NAVY	RDTE/Other	Defense-Basic	Research	625
CONTRACTOR TOTAL						
R & D ASSOCIATES	California	NAVY	RDTE/Other	Defense-Basic	Research	754
RADIATION SCIENCE INC	Mass	NAVY	RDTE/Other	Defense-Basic	Research	45
RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other	Defense-Basic	Research	2,040
RAYMOND L & ASSOC	California	ARMY	RDTE/Other	Defense-Basic	Research	60
RAYTHEON COMPANY	Mass	NAVY	RDTE/Other	Defense-Basic	Research	295
		USAF	RDTE/Other	Defense-Basic	Research	168
						463
STATE TOTAL						
	Rhode Isl	NAVY	RDTE/Other	Defense-Basic	Research	300
						763
	New York	ARMY	RDTE/Other	Defense-Basic	Research	125
		NAVY	RDTE/Other	Defense-Basic	Research	1,963
						2,088
STATE TOTAL						
	New York	NAVY	RDTE/Other	Defense-Basic	Research	75
	California	NAVY	RDTE/Other	Defense-Basic	Research	287
	N Carolina	NAVY	RDTE/Other	Defense-Basic	Research	1,859
	Texas	NAVY	RDTE/Other	Defense-Basic	Research	492
	New York	NAVY	RDTE/Other	Defense-Basic	Research	152

CONTRACTOR TOTAL

RENSELAER POLYTECHNIC INST

RESEARCH FOUNDATION

RESEARCH OPPORTUNITIES INC

RESEARCH TRIANGLE INSTITUTE

RICE WILLIAM MARSH UNIVERSITY

RIVERSIDE RESEARCH INSTITUTE

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

ROBOTIC VISION SYSTEMS INC	New York	ARMY	RDTE/Other Defense-Basic Research	\$	50
ROCKET RESEARCH CO	Washington	NAVY	RDTE/Other Defense-Basic Research		749
ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Basic Research		2,008
		USAF	RDTE/Other Defense-Basic Research		74
	STATE TOTAL				2,082
RONDOUT ASSOCIATES INC	New York	NAVY	RDTE/Other Defense-Basic Research		41
RUTGERS THE STATE UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Basic Research		796
S B S ENGINEERING INC	Texas	USAF	RDTE/Other Defense-Basic Research		401
S F A INC	D.C.	NAVY	RDTE/Other Defense-Basic Research		2,921
	Maryland	NAVY	RDTE/Other Defense-Basic Research		156
	CONTRACTOR TOTAL				3,077
S T D RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		150
SAFETY CONSULTING ENGINEERS	Illinois	USAF	RDTE/Other Defense-Basic Research		48
SAN DIEGO AIRCRAFT ENGINEERING	California	ARMY	RDTE/Other Defense-Basic Research		58
SANDERS ASSOCIATES INTERNATNL	N.H.	NAVY	RDTE/Other Defense-Basic Research		1,156
SANDERS FREDERICK DR	Mass	NAVY	RDTE/Other Defense-Basic Research		63
SANDIA CORPORATION	New Mexico	NAVY	RDTE/Other Defense-Basic Research		530
SCHAFER W J ASSOCIATES INC	Alabama	USAF	RDTE/Other Defense-Basic Research		356
	Mass	NAVY	RDTE/Other Defense-Basic Research		668
	Virginia	NAVY	RDTE/Other Defense-Basic Research		935
	CONTRACTOR TOTAL				1,959
SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Other Defense-Basic Research		239
SCIENCE & ENGINEERING ASSOC	New Mexico	USAF	RDTE/Other Defense-Basic Research		480
SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Defense-Basic Research		494

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AD91 (CONTINUED)

CONTRACTOR TOTAL					
SCIENCE APPLICATIONS INTL CORP	Virginia	NAVY	RDTE/Other Defense-Basic Research		68
	California	NAVY	RDTE/Other Defense-Basic Research		562
	Colorado	ARMY	RDTE/Other Defense-Basic Research		4,187
	D.C.	NAVY	RDTE/Other Defense-Basic Research		96
	Ohio	USAF	RDTE/Other Defense-Basic Research		600
	Virginia	ARMY	RDTE/Other Defense-Basic Research		57
		NAVY	RDTE/Other Defense-Basic Research		408
					7,946
					8,352
					13,292
STATE TOTAL					481
CONTRACTOR TOTAL					
SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Basic Research		50
SCISO INC	New Mexico	NAVY	RDTE/Other Defense-Basic Research		215
SCRIPPS CLINIC RES FOUNDATION	California	NAVY	RDTE/Other Defense-Basic Research		50
SEA TECH INC	Oregon	NAVY	RDTE/Other Defense-Basic Research		153
SEARCH TECHNOLOGY INC	Georgia	NAVY	RDTE/Other Defense-Basic Research		90
		USAF	RDTE/Other Defense-Basic Research		243
STATE TOTAL					80
SECTOR TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		100
SERIM RESEARCH CORP	Indiana	NAVY	RDTE/Other Defense-Basic Research		190
SETS INC	Hawaii	ARMY	RDTE/Other Defense-Basic Research		212
SIAGENIC INC	Indiana	NAVY	RDTE/Other Defense-Basic Research		66
SIGNAL PROCESSING TECHNOLOGY	California	NAVY	RDTE/Other Defense-Basic Research		311
SIGNITION INCORPORATED	New Mexico	NAVY	RDTE/Other Defense-Basic Research		223
SMITHKLINE BIOSCIENCE LAB	Penn	NAVY	RDTE/Other Defense-Basic Research		58
SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Basic Research		

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AD91 (CONTINUED)

SONALYSTS INC	Conn	NAVY	RDTE/Other	Defense-Basic Research	\$ 263
SONOGUEST ADVANCED	Mass	NAVY	RDTE/Other	Defense-Basic Research	57
SOUTH CAROLINA STATE OF	S Carolina	NAVY	RDTE/Other	Defense-Basic Research	21,022
SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Other	Defense-Basic Research	301
	Mass	USAF	RDTE/Other	Defense-Basic Research	36
	Ohio	USAF	RDTE/Other	Defense-Basic Research	116
CONTRACTOR TOTAL					453
SOUTHERN ILLINOIS UNIVERSITY	Illinois	NAVY	RDTE/Other	Defense-Basic Research	83
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other	Defense-Basic Research	917
SPACE COMPUTER CORP	N Carolina	NAVY	RDTE/Other	Defense-Basic Research	100
SPIRE CORPORATION	Mass	NAVY	RDTE/Other	Defense-Basic Research	89
SRI INTERNATIONAL	California	NAVY	RDTE/Other	Defense-Basic Research	4,425
		USAF	RDTE/Other	Defense-Basic Research	444
STATE TOTAL					4,869
STANFORD UNIVERSITY	California	NAVY	RDTE/Other	Defense-Basic Research	9,212
STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other	Defense-Basic Research	522
STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other	Defense-Basic Research	18,427
		NAVY	RDTE/Other	Defense-Basic Research	522
STATE TOTAL					18,949
SUNOL SCIENCES CORP	California	USAF	RDTE/Other	Defense-Basic Research	50
SWALES & ASSOCIATES INC	Maryland	NAVY	RDTE/Other	Defense-Basic Research	1,441
SYNTEK ENGRG COMPUTER SYSTEMS	Maryland	NAVY	RDTE/Other	Defense-Basic Research	40
SYSO ENGINEERING CORP	Mass	NAVY	RDTE/Other	Defense-Basic Research	58
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other	Defense-Basic Research	64-
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other	Defense-Basic Research	8,351

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AD91 (CONTINUED)

		NAVY	RDTE/Other Defense-Basic Research	\$	322
	STATE TOTAL				8,673
SYSTEMS & ELECTRONICS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research		3,078
SYSTEMS & TECHNOLOGY RESEARCH	Virginia	USAF	RDTE/Other Defense-Basic Research		50
SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Defense-Basic Research		3,706
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Basic Research		2,184
	Texas	USAF	RDTE/Other Defense-Basic Research		32
					2,216
CONTRACTOR TOTAL					150
SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Basic Research		74
T S I MASON RESEARCH	Mass	NAVY	RDTE/Other Defense-Basic Research		250
TAU CORPORATION	California	USAF	RDTE/Other Defense-Basic Research		50
TECHMOD	California	NAVY	RDTE/Other Defense-Basic Research		325
TECHNICAL RESEARCH ASSOCIATES	Utah	NAVY	RDTE/Other Defense-Basic Research		51
TECHNO SCIENCES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research		105
		NAVY	RDTE/Other Defense-Basic Research		156
	STATE TOTAL				318
TECHNOLOGY APPLICATIONS INC	Virginia	NAVY	RDTE/Other Defense-Basic Research		550
TECHNOLOGY RESEARCH INTL	California	NAVY	RDTE/Other Defense-Basic Research		207
TECHNOLOGY U S A INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Basic Research		48
TELEDYNE INDUSTRIES INC	Maryland	ARMY	RDTE/Other Defense-Basic Research		65
	Texas	NAVY	RDTE/Other Defense-Basic Research		113
CONTRACTOR TOTAL					190
TEMPLE UNVRSTY CMHWLTH SYS	Penn	NAVY	RDTE/Other Defense-Basic Research		96
TETRA TECH DATA SYSTEMS INC	California	NAVY	RDTE/Other Defense-Basic Research		285
TEXAS A & M RESEARCH FDN	Texas	NAVY	RDTE/Other Defense-Basic Research		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Defense-Basic Research	\$	99
TEXAS CHRISTIAN UNIVERSITY	Texas	NAVY	RDTE/Other Defense-Basic Research		112
TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		250 519
	STATE TOTAL				769
THE ANALYTIC SCIENCE CORP	Mass	USAF	RDTE/Other Defense-Basic Research		105
THERMO ELECTRON TECH CORP	California	NAVY	RDTE/Other Defense-Basic Research		857
THINKING MACHINES CORPORATION	Mass	ARMY	RDTE/Other Defense-Basic Research		373
THIOLKOL CORPORATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		148
	Utah	NAVY	RDTE/Other Defense-Basic Research		171
					319
CONTRACTOR TOTAL					190
THOMSON CSF INC	California	NAVY	RDTE/Other Defense-Basic Research		159
TRACOR APPLIED SCIENCES INC	Texas	USAF	RDTE/Other Defense-Basic Research		154
TRACOR INC	California	NAVY	RDTE/Other Defense-Basic Research		327
	Texas	NAVY	RDTE/Other Defense-Basic Research		481
CONTRACTOR TOTAL					153
TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Basic Research		50
TRICOR SYSTEMS INC	Illinois	NAVY	RDTE/Other Defense-Basic Research		100
TROY SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Basic Research		2,507
TRUAX ENGINEERING	California	NAVY	RDTE/Other Defense-Basic Research		3,995
TRW INC	California	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		1,663
	STATE TOTAL				5,658
	Ohio	USAF	RDTE/Other Defense-Basic Research		3,611
CONTRACTOR TOTAL					9,269

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AD91 (CONTINUED)					
TS INFOSYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Basic Research	\$	120
TULANE UNIVERSITY	Louisiana	NAVY	RDTE/Other Defense-Basic Research		95
TUSKEGEE UNIVERSITY	Alabama	NAVY	RDTE/Other Defense-Basic Research		263
TVI CORPORATION	Maryland	ARMY	RDTE/Other Defense-Basic Research		168
U B C INC	Florida	USAF	RDTE/Other Defense-Basic Research		49
U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other Defense-Basic Research		30
UNION CARBIDE CHEM & PLAS CO	Ohio	NAVY	RDTE/Other Defense-Basic Research		92
UNISYS CORPORATION	Virginia	USAF	RDTE/Other Defense-Basic Research		5,958
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other Defense-Basic Research		1,810
UNITED STATES DEPT ENERGY	California	NAVY	RDTE/Other Defense-Basic Research		200
	D.C.	NAVY	RDTE/Other Defense-Basic Research		75
	Illinois	NAVY	RDTE/Other Defense-Basic Research		515
	New Mexico	NAVY	RDTE/Other Defense-Basic Research		55
	Tennessee	NAVY	RDTE/Other Defense-Basic Research		187
CONTRACTOR TOTAL					1,032
UNITED STATES DEPT INTERIOR	Virginia	NAVY	RDTE/Other Defense-Basic Research		99
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Basic Research		748
	D.C.	NAVY	RDTE/Other Defense-Basic Research		735
	Maryland	NAVY	RDTE/Other Defense-Basic Research		1,406
	Miss	NAVY	RDTE/Other Defense-Basic Research		168
	Washington	NAVY	RDTE/Other Defense-Basic Research		184
CONTRACTOR TOTAL					3,241
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Defense-Basic Research		1,560
	Florida	NAVY	RDTE/Other Defense-Basic Research		276
		USAF	RDTE/Other Defense-Basic Research		41-

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	UNIVERSAL ENERGY SYSTEMS INC	Ohio	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	235 1,795	1,795
	UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	50 1,500	1,550
	UNIVERSITY NOTRE DAME	Indiana	USAF	RDTE/Other Defense-Basic Research	350	350
	UNIVERSITY OF ALABAMA	Alabama	NAVY	RDTE/Other Defense-Basic Research	51	51
	UNIVERSITY OF ARIZONA	Arizona	NAVY	RDTE/Other Defense-Basic Research	190	190
	UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Defense-Basic Research	485	485
	UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	300 12,753 663	13,416
	UNIVERSITY OF CENTRAL FLORIDA	Florida	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	337 59	396
	UNIVERSITY OF CHICAGO THE	Illinois	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,041 50	1,091
	UNIVERSITY OF COLORADO	Colorado	NAVY	RDTE/Other Defense-Basic Research	629	629
	UNIVERSITY OF CONNECTICUT	Conn	NAVY	RDTE/Other Defense-Basic Research	387	387
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Defense-Basic Research	1,866	1,866
	UNIVERSITY OF DELAWARE	Delaware	NAVY	RDTE/Other Defense-Basic Research	45	45
	UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Other Defense-Basic Research	1,020	1,020

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD91 (CONTINUED)

UNIVERSITY OF FLORIDA	Florida	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	\$	90 80
STATE TOTAL					170
UNIVERSITY OF HAWAII	Hawaii	NAVY	RDTE/Other Defense-Basic Research		201
UNIVERSITY OF HOUSTON SYSTEM	Texas	NAVY	RDTE/Other Defense-Basic Research		78
UNIVERSITY OF ILLINOIS	Illinois	ARMY NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		74 2,223 202
STATE TOTAL					2,499
UNIVERSITY OF IOWA THE	Iowa	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		213 280
STATE TOTAL					493
UNIVERSITY OF LOUISVILLE	Kentucky	NAVY	RDTE/Other Defense-Basic Research		64
UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Other Defense-Basic Research		2,676
CONTRACTOR TOTAL	New Jersey	NAVY	RDTE/Other Defense-Basic Research		83
UNIVERSITY OF MASSACHUSETTS	Mass	NAVY	RDTE/Other Defense-Basic Research		2,759
UNIVERSITY OF MICHIGAN	Michigan	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		1,125 2,010 46
STATE TOTAL					2,056
UNIVERSITY OF MINNESOTA	Minnesota	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		5,352 777
STATE TOTAL					6,129
UNIVERSITY OF MISSISSIPPI	Miss	NAVY	RDTE/Other Defense-Basic Research		100
UNIVERSITY OF NEW ORLEANS	Louisiana	NAVY	RDTE/Other Defense-Basic Research		80
UNIVERSITY OF NORTH TEXAS	Texas	USAF	RDTE/Other Defense-Basic Research		160
UNIVERSITY OF OKLAHOMA	Oklahoma	NAVY	RDTE/Other Defense-Basic Research		80

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD91 (CONTINUED)					
	UNIVERSITY OF OREGON	Oregon	NAVY	RDTE/Other Defense-Basic Research	60
	UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other Defense-Basic Research	4,376
	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Other Defense-Basic Research	530
	UNIVERSITY OF RHODE ISLAND	Rhode Isld	NAVY	RDTE/Other Defense-Basic Research	395
	UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other Defense-Basic Research	710
	UNIVERSITY OF SOUTH ALABAMA	Alabama	NAVY	RDTE/Other Defense-Basic Research	91
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	NAVY	RDTE/Other Defense-Basic Research	65
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Basic Research	162
	UNIVERSITY OF STERN CLFORNIA	California	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	4,679 1,492
	STATE TOTAL				6,171
	UNIVERSITY OF TENNESSEE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	442
	UNIVERSITY OF TEXAS AT DALLAS	Texas	NAVY	RDTE/Other Defense-Basic Research	165
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Other Defense-Basic Research	815
	UNIVERSITY OF UTAH	Utah	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,433 1,333
	STATE TOTAL				2,766
	UNIVERSITY OF VIRGINIA	Virginia	NAVY	RDTE/Other Defense-Basic Research	355
	UNIVERSITY OF WASHINGTON	Washington	NAVY	RDTE/Other Defense-Basic Research	3,429
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research	1,044 102
	STATE TOTAL				1,146
	UNIVERSITY OF WYOMING	Wyoming	NAVY	RDTE/Other Defense-Basic Research	161
	UTAH BIORESEARCH INC	Utah	NAVY	RDTE/Other Defense-Basic Research	100
	UTAH STATE UNIVERSITY	Utah	NAVY	RDTE/Other Defense-Basic Research	34

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AD91 (CONTINUED)

VANDERBILT UNIVERSITY THE	Tennessee	NAVY	RDTE/Other Defense-Basic Research	\$	2,938
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Basic Research		250
VESTAR INC	California	NAVY	RDTE/Other Defense-Basic Research		375
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		565 667
STATE TOTAL					1,232
VISION APPLICATION INC	New York	NAVY	RDTE/Other Defense-Basic Research		800
VMS CONSULTING ENGINEERS	Oregon	ARMY	RDTE/Other Defense-Basic Research		190
WASHINGTON STATE UNIVERSITY	Washington	NAVY	RDTE/Other Defense-Basic Research		170
WASHINGTON UNIVERSITY	Missouri	NAVY	RDTE/Other Defense-Basic Research		81
WAYNE STATE UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research		89
WEBB RESEARCH CORP	Mass	NAVY	RDTE/Other Defense-Basic Research		32
WEST VIRGINIA UNIVERSITY	W Virginia	NAVY	RDTE/Other Defense-Basic Research		103
WESTERN MICHIGAN UNIVERSITY	Michigan	NAVY	RDTE/Other Defense-Basic Research		45
WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research		1,792
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY NAVY	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		3,445 463
STATE TOTAL					3,908
CONTRACTOR TOTAL					
WON I J GEOPHEX LTD	Penn	NAVY USAF	RDTE/Other Defense-Basic Research RDTE/Other Defense-Basic Research		166 142
STATE TOTAL					308
WOODS HOLE OCNRPIC INSTITUTE	N Carolina	NAVY	RDTE/Other Defense-Basic Research		4,216
WRIGHT STATE UNIVERSITY	Mass	NAVY	RDTE/Other Defense-Basic Research		173
	Ohio	NAVY	RDTE/Other Defense-Basic Research		3,625
					71

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AD91 (CONTINUED)					
			USAF	RDTE/Other Defense-Basic Research	\$ 340
		STATE TOTAL			411
	XEROX CORPORATION	California	NAVY	RDTE/Other Defense-Basic Research	50
	XONTECH INC	California	NAVY	RDTE/Other Defense-Basic Research	275
	XYBION CORPOKATION	New Jersey	NAVY	RDTE/Other Defense-Basic Research	370
	YALE UNIVERSITY	Conn	NAVY	RDTE/Other Defense-Basic Research	724
	YESHIVA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Basic Research	70
	ZERNOW TECHNICAL SERVICES INC	California	NAVY	RDTE/Other Defense-Basic Research	125
	R&D TOTAL				403,691
AD92	21 INTERNATIONAL HOLDINGS	Indiana	USAF	RDTE/Other Defense-Exploratory Development	27
	A A I CORPORATION	Maryland	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	401 94
		STATE TOTAL			495
	A R CABLE SERVICES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,038
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Defense-Exploratory Development	49
	ACT INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	ACTRAN SYSTEMS INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	145-
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	190
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	457
	CONTRACTOR TOTAL				647
	ADAPTIVE OPTICS ASSOCIATES	Mass	USAF	RDTE/Other Defense-Exploratory Development	311
	ADAPTIVE SENSORS INC	California	USAF	RDTE/Other Defense-Exploratory Development	75
	ADAPTIVE TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	255
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	497
	ADVANCED COMPOSITES LABS	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50

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AD92 (CONTINUED)

ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	788
		USAF	RDTE/Other Defense-Exploratory Development		1,369
	STATE TOTAL				2,157
ADVANCED MARINE ENTERPRISES	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		497
ADVANCED RES & APPLICATIONS	California	ARMY	RDTE/Other Defense-Exploratory Development		199
		NAVY	RDTE/Other Defense-Exploratory Development		72
	STATE TOTAL				271
CONTRACTOR TOTAL	Ohio	USAF	RDTE/Other Defense-Exploratory Development		250
					521
ADVANCED SCIENTIFIC CONCEPTS	California	ARMY	RDTE/Other Defense-Exploratory Development		50
ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		184
ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		5,431
ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Defense-Exploratory Development		69
		NAVY	RDTE/Other Defense-Exploratory Development		400
	STATE TOTAL				469
ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		445
ADVANCES SURFACE TECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		655
AEROJET	California	ARMY	RDTE/Other Defense-Exploratory Development		150
		USAF	RDTE/Other Defense-Exploratory Development		132
	STATE TOTAL				282
AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Exploratory Development		58
AEROVIRONMENT INC	California	USAF	RDTE/Other Defense-Exploratory Development		144
AGBABIAN ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		74
ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Other Defense-Exploratory Development		100
ALAMO INSTRUMENTS	California	ARMY	RDTE/Other Defense-Exploratory Development		50

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AD92 (CONTINUED)

ALLIED SIGNAL AEROSPACE CO	Arizona	NAVY	RDTE/Other Defense-Exploratory Development	74
		USAF	RDTE/Other Defense-Exploratory Development	2,331
	STATE TOTAL			2,405
	California	USAF	RDTE/Other Defense-Exploratory Development	250
	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	375
	Nevada	ARMY	RDTE/Other Defense-Exploratory Development	2,710
				5,740
CONTRACTOR TOTAL				
ALLIED SIGNAL INC	Arizona	USAF	RDTE/Other Defense-Exploratory Development	282
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	2,364
				2,646
CONTRACTOR TOTAL				
ALPHA CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	61
ALPHATECH INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	50
AMADOR RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development	49
AMAF INDUSTRIES INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	41
AMBER ENGINEERING INC	California	ARMY	RDTE/Other Defense-Exploratory Development	65
		USAF	RDTE/Other Defense-Exploratory Development	360
	STATE TOTAL			425
AMERICAN AMPLIFIER AND TV CORP	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	39
AMERICAN MICROWAVE CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	25
AMERICAN RESEARCH CORP VA	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
AMERICAN TELE & TELG COMPANY	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	200
AMERICAN XTAL TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	100
AMHERST SYSTEMS INC	New York	NAVY	RDTE/Other Defense-Exploratory Development	494
AMSTAR TECHNICAL PRODUCTS CO	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	82
AMTEC ENGINEERING INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development	248

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AD92 (CONTINUED)

ANALYTICAL SYSTEMS ENGRG CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	\$	156
	Mass	ARMY	RDTE/Other Defense-Exploratory Development		167
CONTRACTOR TOTAL					323
ANALYTICS INCORPORATED	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		70
	Penn	ARMY	RDTE/Other Defense-Exploratory Development		214
CONTRACTOR TOTAL					284
ANAMET LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		994
ANDERSEN ARTHUR & CO	Illinois	USAF	RDTE/Other Defense-Exploratory Development		597
ANRO ENGINEERING INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		250
ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other Defense-Exploratory Development		141
APCOT CORPORATION	Penn	NAVY	RDTE/Other Defense-Exploratory Development		31
APPLIED MICROSYSTEMS CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		42
APPLIED RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		118
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		1,199
	Vermont	ARMY	RDTE/Other Defense-Exploratory Development		50
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		178
CONTRACTOR TOTAL					1,545
APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		250
APPLIED SCIENCE & TECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
APPLIED SCIENCE ASSOCIATES	Penn	USAF	RDTE/Other Defense-Exploratory Development		26-
APPLIED TCHNOLOGY ASSOC INC DEL	California	NAVY	RDTE/Other Defense-Exploratory Development		190
APPLIED THEORY INC	California	ARMY	RDTE/Other Defense-Exploratory Development		206
APTECH ENGINEERING SERVICES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		100
APTEK INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development		1,385

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AD92 (CONTINUED)

AQUANAUTICS CORPORATION	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	250 250
STATE TOTAL					
ARCO POWER TECHNOLOGY	D.C.	ARMY	RDTE/Other Defense-Exploratory Development		500
ARES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		251
ARGO TECH CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development		460
ARRAL INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		74
ARTIFICIAL INTELLIGENCE CORP	Georgia	ARMY	RDTE/Other Defense-Exploratory Development		1,527
ASPEX MICROSYSTEMS LIMITED	UNITED KIN	USAF	RDTE/Other Defense-Exploratory Development		49
ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development		80
ASTRONAUTICS CORP AMERICA	Wisconsin	ARMY	RDTE/Other Defense-Exploratory Development		36
AT&T TECHNOLOGIES INC	Nebraska	NAVY	RDTE/Other Defense-Exploratory Development		198
CONTRACTOR TOTAL					
ATHENA ENGINEERING CO	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		35
ATHENA GROUP THE	Florida	USAF	RDTE/Other Defense-Exploratory Development		1,577
ATLANTIC AEROSPACE ELECTRONICS	Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		90
STATE TOTAL					
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Exploratory Development		1,702
ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		90
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		51
	New York	USAF	RDTE/Other Defense-Exploratory Development		310
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		180
STATE TOTAL					
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Exploratory Development		490
ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		49
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		518
	New York	USAF	RDTE/Other Defense-Exploratory Development		290
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		245
STATE TOTAL					
ATLANTIC APPLIED RESEARCH	Mass	NAVY	RDTE/Other Defense-Exploratory Development		127

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AD92 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL	USAF	RDTE/Other Defense-Exploratory Development	\$
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	54	
AUGUST DESIGN AND DEVELOPMENT	Penn	ARMY	RDTE/Other Defense-Exploratory Development	181	
AURORA FLIGHT SCIENCES CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,234	
AUSTIN RESEARCH ASSOCIATES	Texas	ARMY	RDTE/Other Defense-Exploratory Development	965	
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	48	
AUTOMATION SYSTEMS	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50	
AUTOMETRIC INC	New York	USAF	RDTE/Other Defense-Exploratory Development	410	
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,447	
		ARMY	RDTE/Other Defense-Exploratory Development	242	
		USAF	RDTE/Other Defense-Exploratory Development	55	
		ARMY	RDTE/Other Defense-Exploratory Development	93	
		ARMY	RDTE/Other Defense-Exploratory Development	148	
AVCO CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	1,890	
		USAF	RDTE/Other Defense-Exploratory Development	1,453	
		STATE TOTAL		3,343	
AWARE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49	
BAAS CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,086	
BALL CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	120	
		USAF	RDTE/Other Defense-Exploratory Development	45	
		STATE TOTAL		165	
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	3,933	
		NAVY	RDTE/Other Defense-Exploratory Development	90	
		USAF	RDTE/Other Defense-Exploratory Development	971	
		STATE TOTAL		4,994	
BAYLESS JOHN R CO	California	ARMY	RDTE/Other Defense-Exploratory Development	69	
BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Defense-Exploratory Development	325	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	\$ 123
	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development	3,404
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	3,224
		USAF	RDTE/Other	Defense-Exploratory Development	210
	STATE TOTAL				3,434

CONTRACTOR TOTAL

BECHTEL NATIONAL INC	California	ARMY	RDTE/Other	Defense-Exploratory Development	4,428
BEECHER RESEARCH CO	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	83
BEERS ASSOCIATES INC	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	80
BELL COMMUNICATIONS RESEARCH	New Jersey	NAVY	RDTE/Other	Defense-Exploratory Development	385
BEND RESEARCH INC	Oregon	ARMY	RDTE/Other	Defense-Exploratory Development	190
BERKELEY RESEARCH ASSOCIATES	California	ARMY	RDTE/Other	Defense-Exploratory Development	1,083
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	1,320
					2,403

CONTRACTOR TOTAL

BIOMAGNETIC TECHNOLOGIES INC	California	NAVY	RDTE/Other	Defense-Exploratory Development	430
BOEING AEROSPACE & ELECTRONICS	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	5,730
	Washington	ARMY	RDTE/Other	Defense-Exploratory Development	753
		USAF	RDTE/Other	Defense-Exploratory Development	393
	STATE TOTAL				1,146

CONTRACTOR TOTAL

BOEING COMPANY THE	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	7,340
	Washington	ARMY	RDTE/Other	Defense-Exploratory Development	976
		NAVY	RDTE/Other	Defense-Exploratory Development	150
		USAF	RDTE/Other	Defense-Exploratory Development	1,461
	STATE TOTAL				2,587

CONTRACTOR TOTAL

9,927

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92	(CONTINUED)				
	BOEING COMPUTER SUPPORT SVCS	Washington	USAF	RDTE/Other Defense-Exploratory Development	\$ 368
	BOEING SUPPORT SERVICES	Washington	USAF	RDTE/Other Defense-Exploratory Development	125
	BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	69,817
			NAVY	RDTE/Other Defense-Exploratory Development	1,879
			USAF	RDTE/Other Defense-Exploratory Development	352
	STATE TOTAL				72,048
	BONNEVILLE SCIENTIFIC INC	Utah	ARMY	RDTE/Other Defense-Exploratory Development	244
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	3,078
			USAF	RDTE/Other Defense-Exploratory Development	770
	STATE TOTAL				3,848
		Texas	USAF	RDTE/Other Defense-Exploratory Development	199
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	271
	CONTRACTOR TOTAL				4,318
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	110
	BROWN UNIVERSITY	Rhode Isld	NAVY	RDTE/Other Defense-Exploratory Development	595
	BRUNSWICK CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,448
	C & M TECHNOLOGY INC	Colorado	NAVY	RDTE/Other Defense-Exploratory Development	209
	C A E INDUSTRIES LTD	Arizona	USAF	RDTE/Other Defense-Exploratory Development	650
	C LEC PLASTICS INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	89
	C M S RESEARCH CORPORATION	Alabama	NAVY	RDTE/Other Defense-Exploratory Development	50
	C S R INC	D.C.	USAF	RDTE/Other Defense-Exploratory Development	41
	C V C PRODUCTS INC DEL	New York	NAVY	RDTE/Other Defense-Exploratory Development	590
	CACI INC	Texas	USAF	RDTE/Other Defense-Exploratory Development	161
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Other Defense-Exploratory Development	60
	CALGON CARBON CORPORATION DEL	Penn	ARMY	RDTE/Other Defense-Exploratory Development	84
	CALIFORNIA INST OF TECHNOLOGY	California	NAVY	RDTE/Other Defense-Exploratory Development	802

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

CALIFORNIA RES & TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	\$	3,337
	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		75
CONTRACTOR TOTAL					3,412
CALL RECALL	California	USAF	RDTE/Other Defense-Exploratory Development		650
CALSPAN CORPORATION	Arizona	USAF	RDTE/Other Defense-Exploratory Development		134
	California	USAF	RDTE/Other Defense-Exploratory Development		275
	Florida	USAF	RDTE/Other Defense-Exploratory Development		50
	Maryland	USAF	RDTE/Other Defense-Exploratory Development		75
	Mass	USAF	RDTE/Other Defense-Exploratory Development		205
	New Jersey	USAF	RDTE/Other Defense-Exploratory Development		80
	New York	ARMY	RDTE/Other Defense-Exploratory Development		1,000
		USAF	RDTE/Other Defense-Exploratory Development		3,660
STATE TOTAL					4,660
	Virginia	USAF	RDTE/Other Defense-Exploratory Development		100
CONTRACTOR TOTAL					5,579
CAMAS DIAGNOSTIC COMPANY	Minnesota	NAVY	RDTE/Other Defense-Exploratory Development		50
CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Other Defense-Exploratory Development		191
CARDINAL SCIENTIFIC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		163
CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		50
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development		519
		NAVY	RDTE/Other Defense-Exploratory Development		297
		USAF	RDTE/Other Defense-Exploratory Development		4,207
STATE TOTAL					5,023
CARPENTER RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		32
CARTWRIGHT ELECTRONICS INC	California	USAF	RDTE/Other Defense-Exploratory Development		2,333

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CAS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	3,587
	CASDE CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	140
	CASE WESTERN RESERVE UNIV	Ohio	USAF	RDTE/Other Defense-Exploratory Development	547
	CEMCOM RESEARCH ASSOCIATES	Maryland	USAF	RDTE/Other Defense-Exploratory Development	494
	CENTER FOR REMOTE SENSING	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	CENTURY COMPUTING INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	225
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	309
	CONTRACTOR TOTAL				534
	CERAMIC & MATERIALS PROCESSING	New York	ARMY	RDTE/Other Defense-Exploratory Development	36
	CERAMICS PROCESS SYSTEMS CORP	Mass	NAVY	RDTE/Other Defense-Exploratory Development	400
	CERAMPHYSICS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	119
	CF TECHNOLOGIES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100
	CFD RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	50
			NAVY	RDTE/Other Defense-Exploratory Development	49
	STATE TOTAL				99
	CHAMBERLAIN MANUFACTURING CORP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	404
	CHAN COMPUTER CORP	Penn	NAVY	RDTE/Other Defense-Exploratory Development	61
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	108
	CONTRACTOR TOTAL				169
	CHARLES RIVER ANALYTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	CLEARPOINT RESEARCH CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	50
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development	118
	COLEMAN RESEARCH CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	449
	COLORADO RESEARCH LABORATORY	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	47

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Other Defense-Exploratory Development	107
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	268
	COLUMBIA UNIVERSITY	New York	NAVY	RDTE/Other Defense-Exploratory Development	870
	COMAR INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	174
	COMMUNICATIONS SATELLITE CORP	D.C.	USAF	RDTE/Other Defense-Exploratory Development	249
	COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	1,604
	COMPUTER SCIENCES CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	5,064
		Florida	USAF	RDTE/Other Defense-Exploratory Development	315
	CONTRACTOR TOTAL				5,379
	COMPUTER TOWERS	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	31
	COMPUTERBASE INC	California	USAF	RDTE/Other Defense-Exploratory Development	190-
	COMSTRON CORPORATION	New York	NAVY	RDTE/Other Defense-Exploratory Development	95
	CONCURRENT COMPUTER CORP	New Jersey	USAF	RDTE/Other Defense-Exploratory Development	892
	CONTINENTAL PRODUCTS INC	Indiana	NAVY	RDTE/Other Defense-Exploratory Development	288
	CONTROL DATA CANADA LTD	CANADA	NAVY	RDTE/Other Defense-Exploratory Development	70
	CONVEX COMPUTER CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	437
	CORBETT TECHNOLOGY COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,042
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Defense-Exploratory Development	412
			NAVY	RDTE/Other Defense-Exploratory Development	1,459
	STATE TOTAL				1,871
	CORNING INC	New York	USAF	RDTE/Other Defense-Exploratory Development	125
	CREARE INC	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	250
			USAF	RDTE/Other Defense-Exploratory Development	49
	STATE TOTAL				299
	CREATIVE TECHNOLOGY INC	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	28

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD92 (CONTINUED)

CRESCENT FIRE PRO DST	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	\$	38
CRYSTALLUME	California	ARMY	RDTE/Other Defense-Exploratory Development		64
CTA INCORPORATED	Ohio	USAF	RDTE/Other Defense-Exploratory Development		281
DAMASKOS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		50
DAY & ZIMMERMANN INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		161
DAYCHEM LABORATORIES INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		225
DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development		363
DECISION SCIENCE APPLICATIONS	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		1,671 441
		STATE TOTAL			2,112
DEEGAN RESEARCH GROUP INC	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development		50
DEFENSE GROUP INC	California	ARMY	RDTE/Other Defense-Exploratory Development		200
DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		96
DEFENSE SYSTEMS COMPANY INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		107
DEFENSE SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		5,875
DEMACO	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		56
DEVELOPMENTAL SCIENCES CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		200
DGI INDUSTRIES INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		658
DIAMOND MATERIALS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development		279
DIEHL GMBH & CO	GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development		486
DIGITAL EQUIPMENT CORPORATION	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		376
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		40
CONTRACTOR TOTAL					416
DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		535

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AD92 (CONTINUED)					
	DIMENSION TECHNOLOGIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	\$ 175
	DIRECTED TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	9,900
	DISPLAY SCIENCE INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	246
	DOVE ELECTRONICS INC	New York	USAF	RDTE/Other Defense-Exploratory Development	161
	DOW CHEMICAL COMPANY THE	Michigan	USAF	RDTE/Other Defense-Exploratory Development	448
	DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	207 488
		STATE TOTAL			695
	DU PONT E I DE NMOURS COMPANY	Delaware	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	5,999 164
		STATE TOTAL			6,163
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	275
	DYNAMIC CONTROLS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	95
	DYNAMIC ENGINEERING INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	131
	DYNATHERM CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	62
	DYNACORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	265
	DYNETICS INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	11,789
	E C CORPORATION OF OAK RIDGE	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	408
	E I C LABORATORY INC	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	56 167
		STATE TOTAL			223
	E M C ENGINEERING SERVICES	Penn	NAVY	RDTE/Other Defense-Exploratory Development	70
	E M C ENGINEERS INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	268
	E OIR MEASUREMENTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	60

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	E SYSTEMS INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	1,160
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	203
	CONTRACTOR TOTAL				1,363
	E TEK DYNAMICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	EAGLE PICHER INDUSTRIES INC	California	USAF	RDTE/Other Defense-Exploratory Development	577
		Colorado	USAF	RDTE/Other Defense-Exploratory Development	196
		Missouri	USAF	RDTE/Other Defense-Exploratory Development	171
	CONTRACTOR TOTAL				944
	EAGLE SYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	485
	EAGLE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Exploratory Development	66
	EAGLEMARK INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	50
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	257
	EASTERN COMPUTERS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,184
	EASTMAN KODAK COMPANY	New York	ARMY	RDTE/Other Defense-Exploratory Development	381
			NAVY	RDTE/Other Defense-Exploratory Development	402
			USAF	RDTE/Other Defense-Exploratory Development	627
	STATE TOTAL				1,410
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	86
			USAF	RDTE/Other Defense-Exploratory Development	86
	STATE TOTAL				172
	EBASCO SERVICES INCORPORATED	New York	ARMY	RDTE/Other Defense-Exploratory Development	5,060
	EBERLINE INSTRUMENT CORP	U.S. Minor	ARMY	RDTE/Other Defense-Exploratory Development	1,477
	EER SYSTEMS CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	979
	EG&G GEOMETRICS INC	California	NAVY	RDTE/Other Defense-Exploratory Development	59
	EG&G INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	750

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	EG&G SEALOL INC	Rhode Isld	USAF	RDTE/Other Defense-Exploratory Development	\$ 175
	EG&G WASHINGTON ANALYTICAL SVC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	67
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	327
	CONTRACTOR TOTAL				394
	ELECTRIC PROPULSION LABORATORY	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	ELECTRO DESIGN MANUFACTURING	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	439
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	313
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	1,825
	ELECTRONIC COMPONENT SALES	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	58
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Defense-Exploratory Development	1,955
	EMC SCIENCE CTR INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	615
	EMCORE CORP	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	246
	ENERGY COMPRESSION RES CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	102
	ENERGY CONVERSION DEVICES INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	125
	ENGINEERING & ECONOMICS RES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	453
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	80
	CONTRACTOR TOTAL				533
	ENGINEERING & SCIENCE ASSOC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	118
	ENGINEERING TECHNOLOGY INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	214
	ENGINEERING METHODS APPLICATIONS	Florida	ARMY	RDTE/Other Defense-Exploratory Development	115
	ENSCO INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,307
		NAVY		RDTE/Other Defense-Exploratory Development	49
	STATE TOTAL				2,356
	ENTROPIC RESEARCH LABORATORY I	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	ENVIRNMNTAL TECHNOLOGIES GROUP	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	1,344
	ENVIRONMENTAL DIAGNOSTICS	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	46
	ENVIRONMENTAL RESEARCH	Michigan	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,000 785
			STATE TOTAL		4,785
	EPSILON LAMBDA ELECTRONICS	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	71
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Exploratory Development	275
	ESSENTIAL RESEARCH	New York	ARMY	RDTE/Other Defense-Exploratory Development	52
	ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	66
	EVANS CHARLES & ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	249
	EXCEL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	234
	FALCON ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	2,563
	FALCON MICROSYSTEMS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	73
	FASTMAN INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	48
	FIBER MATERIALS INC	Maine	ARMY	RDTE/Other Defense-Exploratory Development	400
	FIBERTEK INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	6,576
	FINKELSTEIN ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	150
	FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Other Defense-Exploratory Development	92
	FLORIDA STATE UNIVERSITY	Florida	NAVY	RDTE/Other Defense-Exploratory Development	50
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Defense-Exploratory Development	53
	FLUIDYNE ENGINEERING CORP	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	374
	FM TECHNOLOGIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	FMC CORPORATION	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	5,170
	FORD AEROSPACE CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	222

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AD92 (CONTINUED)					
			NAVY	RDTE/Other Defense-Exploratory Development	\$ 470
		STATE TOTAL			692
	FORE MACHINE COMPANY INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	54
	FOSTER MILLER INC	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	599 150
		STATE TOTAL			749
	FRIED D L ASSOCIATES INC	California	USAF	RDTE/Other Defense-Exploratory Development	300
	FRONTIER TECHNOLOGY INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	140
	FUENTEZ SYSTEMS CONCEPTS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	169
	G & F COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	43,267
	G T DEVICES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	613
	GARJAK RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	340
	GE	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	155
	GEMINI INDUSTRIES INC	New York	USAF	RDTE/Other Defense-Exploratory Development	135
	GENCORP INC	California	ARMY	RDTE/Other Defense-Exploratory Development	5,559
	GENERAL ATOMICS	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	186 112
		STATE TOTAL			298
	GENERAL DYNAMICS CORPORATION	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	4,956 93 86
		STATE TOTAL			5,135
		Michigan	ARMY	RDTE/Other Defense-Exploratory Development	550
		Texas	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	218 601
		STATE TOTAL			819
	CONTRACTOR TOTAL				6,504

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AD92 (CONTINUED)	GENERAL ELECTRIC COMPANY	Arizona	USAF	RDTE/Other	Defense-Exploratory Development	\$ 4,730
		Mass	ARMY	RDTE/Other	Defense-Exploratory Development	268
		New Jersey	ARMY	RDTE/Other	Defense-Exploratory Development	2,715
			NAVY	RDTE/Other	Defense-Exploratory Development	118
			USAF	RDTE/Other	Defense-Exploratory Development	271
		STATE TOTAL				3,104
		New York	ARMY	RDTE/Other	Defense-Exploratory Development	107
			NAVY	RDTE/Other	Defense-Exploratory Development	95
			USAF	RDTE/Other	Defense-Exploratory Development	1,905
		STATE TOTAL				2,107
	CONTRACTOR TOTAL	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	5,860
		Penn	ARMY	RDTE/Other	Defense-Exploratory Development	1,610
		Vermont	ARMY	RDTE/Other	Defense-Exploratory Development	877
						18,556
		Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	265
		Maryland	ARMY	RDTE/Other	Defense-Exploratory Development	2,940
		Indiana	ARMY	RDTE/Other	Defense-Exploratory Development	100
			NAVY	RDTE/Other	Defense-Exploratory Development	225
			USAF	RDTE/Other	Defense-Exploratory Development	3,934
		STATE TOTAL				4,259
	GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other	Defense-Exploratory Development	1,000
			USAF	RDTE/Other	Defense-Exploratory Development	602
		STATE TOTAL				1,602
		Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	639
						2,241
Penn		ARMY	RDTE/Other	Defense-Exploratory Development	168	
New York		USAF	RDTE/Other	Defense-Exploratory Development	166	
		NAVY	RDTE/Other	Defense-Exploratory Development	1,165	
D.C.						
CONTRACTOR TOTAL						
GENERAL SCIENCES INC						
GENISYS RESEARCH & DEVELOPMENT						
GEO CENTERS INC						

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)				
CONTRACTOR TOTAL				
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	\$ 280
	Mass	ARMY	RDTE/Other Defense-Exploratory Development	419
				1,864
		ARMY	RDTE/Other Defense-Exploratory Development	5,426
		USAF	RDTE/Other Defense-Exploratory Development	3,148
				8,574
STATE TOTAL				
GEOSCIENCE LTD	California	USAF	RDTE/Other Defense-Exploratory Development	31
GEOSPECTRA CORPORATION	Michigan	USAF	RDTE/Other Defense-Exploratory Development	160
GLEASON RESEARCH ASSOC INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	251
GLOBAL ASSOCIATES LTD	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	238
GLOBAL INFO SYSTEMS TECHNOLOGY	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	48
GOODRICH B F COMPANY THE	California	USAF	RDTE/Other Defense-Exploratory Development	115
GORHAM ADVANCED MATERIALS INST	Maine	ARMY	RDTE/Other Defense-Exploratory Development	250
GRADIENT LENS CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	291
GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Defense-Exploratory Development	292
		USAF	RDTE/Other Defense-Exploratory Development	647
				939
STATE TOTAL				
GRUMMAN DATA SYSTEMS CORP	New York	ARMY	RDTE/Other Defense-Exploratory Development	85
		USAF	RDTE/Other Defense-Exploratory Development	50
				135
STATE TOTAL				
GTE GOVERNMENT SYSTEMS CORP	Mass	NAVY	RDTE/Other Defense-Exploratory Development	150
GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	96
H & N INSTRUMENTS INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	250
HAMMELMANN	Ohio	NAVY	RDTE/Other Defense-Exploratory Development	92
HARRIS CORPORATION	Florida	ARMY	RDTE/Other Defense-Exploratory Development	500

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
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AD92 (CONTINUED)

	NAVY	RDTE/Other Defense-Exploratory Development		\$	742
	USAF	RDTE/Other Defense-Exploratory Development			2,254
STATE TOTAL					3,496
	USAF	RDTE/Other Defense-Exploratory Development			154
CONTRACTOR TOTAL					3,650
HARSCO CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development			125
HARVARD UNIVERSITY	NAVY	RDTE/Other Defense-Exploratory Development			299
HCC SCIENCE & TECHNOLOGY CO	USAF	RDTE/Other Defense-Exploratory Development			300
HERCULES INCORPORATED	ARMY	RDTE/Other Defense-Exploratory Development			592
	ARMY	RDTE/Other Defense-Exploratory Development			931
CONTRACTOR TOTAL					1,523
HEWLETT PACKARD COMPANY	NAVY	RDTE/Other Defense-Exploratory Development			672
HI Z TECHNOLOGY INC	ARMY	RDTE/Other Defense-Exploratory Development			260
HILTON SYSTEMS INC	ARMY	RDTE/Other Defense-Exploratory Development			2,955
HITTITE MICROWAVE CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development			53
HNC INC	ARMY	RDTE/Other Defense-Exploratory Development			247
HONEYWELL INC	ARMY	RDTE/Other Defense-Exploratory Development			229
	ARMY	RDTE/Other Defense-Exploratory Development			1,652
	NAVY	RDTE/Other Defense-Exploratory Development			904
	USAF	RDTE/Other Defense-Exploratory Development			2,442
STATE TOTAL					4,998
	ARMY	RDTE/Other Defense-Exploratory Development			532
CONTRACTOR TOTAL					5,759
HORIZONS TECHNOLOGY INC	ARMY	RDTE/Other Defense-Exploratory Development			2,442
HOWARD UNIVERSITY	USAF	RDTE/Other Defense-Exploratory Development			71
HRB SYSTEMS INC	USAF	RDTE/Other Defense-Exploratory Development			206

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Other Defense-Exploratory Development	14,996
			NAVY	RDTE/Other Defense-Exploratory Development	1,474
			USAF	RDTE/Other Defense-Exploratory Development	3,573
	STATE TOTAL				20,043
		New Mexico	USAF	RDTE/Other Defense-Exploratory Development	300
	CONTRACTOR TOTAL				20,343
	HUMAN FACTORS APPLICATIONS	Penn	NAVY	RDTE/Other Defense-Exploratory Development	283
	HY TECH RESEARCH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	141
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Exploratory Development	381
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	200
			USAF	RDTE/Other Defense-Exploratory Development	36
	STATE TOTAL				236
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	244
		Maryland	USAF	RDTE/Other Defense-Exploratory Development	168
	CONTRACTOR TOTAL				412
	I S I GROUP INC	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	278
	IBIS TECHNOLOGY CORP	Mass	ARMY	RDTE/Other Defense-Exploratory Development	383
	ICF INCORPORATED	Louisiana	USAF	RDTE/Other Defense-Exploratory Development	99
	IMAGING SCIENCE TECHNOLOGIES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	INCREMENTAL SYSTEMS CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	500
	INDIANA UNIVERSITY FOUNDATION	Indiana	USAF	RDTE/Other Defense-Exploratory Development	72
	INFOSYSTEMS TECHNOLOGY INC	Maryland	USAF	RDTE/Other Defense-Exploratory Development	214
	INNOVATIVE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	INNOVATIVE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	50
	INSTITUTE FOREIGN PLCY ANLYS	Mass	ARMY	RDTE/Other Defense-Exploratory Development	300

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

INTEGRATED APPLIED PHYSICS	California	NAVY	RDTE/Other Defense-Exploratory Development	\$	200
INTEGRATED SYSTEMS INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		239 76
	STATE TOTAL				315
INTEL CORPORATION	Oregon	ARMY	RDTE/Other Defense-Exploratory Development		8,796
INTER CONTROLS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		105
INTERARD CORPORATION	Georgia	NAVY	RDTE/Other Defense-Exploratory Development		190
INTERGRAPH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		335
INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		180
	Ohio	USAF	RDTE/Other Defense-Exploratory Development		394
					574
CONTRACTOR TOTAL					
INTERNATIONAL BUS MCHS CORP	New York	USAF	RDTE/Other Defense-Exploratory Development		152
INTERNATIONAL SOFTWARE SYSTEMS	Texas	USAF	RDTE/Other Defense-Exploratory Development		1,583
IRT CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		610
IRVINE SENSORS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		243
ITT CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development		330
	Indiana	USAF	RDTE/Other Defense-Exploratory Development		215
	New Jersey	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		263 885
	STATE TOTAL				1,148
CONTRACTOR TOTAL					1,693
ITT GILFILLAN	California	USAF	RDTE/Other Defense-Exploratory Development		602
J K RESEARCH	Montana	ARMY	RDTE/Other Defense-Exploratory Development		195
JASON ASSOCIATES CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		7,062
JAYCOR	California	ARMY	RDTE/Other Defense-Exploratory Development		21,468

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

	NAVY	RDTE/Other Defense-Exploratory Development	\$	59
	USAF	RDTE/Other Defense-Exploratory Development		128
STATE TOTAL				21,655
Maryland	ARMY	RDTE/Other Defense-Exploratory Development		74
Ohio	USAF	RDTE/Other Defense-Exploratory Development		797
Virginia	ARMY	RDTE/Other Defense-Exploratory Development		2,053
	NAVY	RDTE/Other Defense-Exploratory Development		149
STATE TOTAL				2,202
				24,728
CONTRACTOR TOTAL				70
JES INC	ARMY	RDTE/Other Defense-Exploratory Development		98
JOHN DEERE COMPANY	NAVY	RDTE/Other Defense-Exploratory Development		156
JOHNS HOPKINS UNIVERSITY	NAVY	RDTE/Other Defense-Exploratory Development		524
JOHNSON CONTROLS INC	ARMY	RDTE/Other Defense-Exploratory Development		29
K D I ELECTRONICS INC	NAVY	RDTE/Other Defense-Exploratory Development		248
K M S FUSION INC	ARMY	RDTE/Other Defense-Exploratory Development		60
K V H INDUSTRIES INC	ARMY	RDTE/Other Defense-Exploratory Development		50
KAISER AEROSPACE & ELEC CORP	USAF	RDTE/Other Defense-Exploratory Development		4,305
KAMAN SCIENCES CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development		6,343
	USAF	RDTE/Other Defense-Exploratory Development		32
STATE TOTAL				6,375
	ARMY	RDTE/Other Defense-Exploratory Development		287
	USAF	RDTE/Other Defense-Exploratory Development		1,873
CONTRACTOR TOTAL				12,840
KARAGOZIAN & CASE	ARMY	RDTE/Other Defense-Exploratory Development		434
KEMP CORPORATION	ARMY	RDTE/Other Defense-Exploratory Development		260

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AD92 (CONTINUED)						
	KESTREL INSTITUTE	California	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	429 300
		STATE TOTAL				729
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		55
	KNOWLEDGE SYSTEMS CONCEPTS	New York	USAF	RDTE/Other Defense-Exploratory Development		406
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		50
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Exploratory Development		2,759
	KTECH CORPORATION	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		100
	L & S CONSULTANTS	New York	USAF	RDTE/Other Defense-Exploratory Development		41
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		47
	L N K CORPORATION	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		1,486
	L N R COMMUNICATIONS INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		50
	LAB ANIMALS BREEDERS & SVCS IN	S Carolina	ARMY	RDTE/Other Defense-Exploratory Development		72
	LACHEL PIEPENBURG & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		382
	LASER POWER CORP	California	USAF	RDTE/Other Defense-Exploratory Development		54
	LEAR ASTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development		1,770
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Defense-Exploratory Development		100
	LEWIS BROTHERS STAGES INC	Utah	USAF	RDTE/Other Defense-Exploratory Development		1,018
	LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Other Defense-Exploratory Development		600
	LINGUISTIC RESEARCH INSTITUTE	Colorado	USAF	RDTE/Other Defense-Exploratory Development		210
	LITTLE ARTHUR D INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		206
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Exploratory Development		550
		New Jersey	NAVY	RDTE/Other Defense-Exploratory Development		150
		New York	USAF	RDTE/Other Defense-Exploratory Development		353

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

LOCKHEED CORPORATION	CONTRACTOR TOTAL				\$	1,053
	California	ARMY	RDTE/Other Defense-Exploratory Development			3,004
	USAF	RDTE/Other Defense-Exploratory Development			1,094	
	STATE TOTAL				4,098	
LOCKHEED TECHNICAL SERVICES CO	CONTRACTOR TOTAL					150
	Georgia	USAF	RDTE/Other Defense-Exploratory Development			1,154
	N.H.	USAF	RDTE/Other Defense-Exploratory Development			5,402
	California	ARMY	RDTE/Other Defense-Exploratory Development			8,107
LOCUS INC	CONTRACTOR TOTAL					921
	Nevada	ARMY	RDTE/Other Defense-Exploratory Development			9,253
	Maryland	NAVY	RDTE/Other Defense-Exploratory Development			1,100
	Penn	NAVY	RDTE/Other Defense-Exploratory Development			10,353
LOGICA SPACE & DEFENSE SYS INC	CONTRACTOR TOTAL					1,440
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development			5,715
	UNITED KIN	ARMY	RDTE/Other Defense-Exploratory Development			803
	California	ARMY	RDTE/Other Defense-Exploratory Development			7,958
LOGICON INC	CONTRACTOR TOTAL					200
	Ohio	USAF	RDTE/Other Defense-Exploratory Development			9,650
	Arizona	ARMY	RDTE/Other Defense-Exploratory Development			517
	California	ARMY	RDTE/Other Defense-Exploratory Development			10,167
LORAL CORPORATION	CONTRACTOR TOTAL					4,830
	Ohio	USAF	RDTE/Other Defense-Exploratory Development			14,997
	Arizona	ARMY	RDTE/Other Defense-Exploratory Development			31
	California	ARMY	RDTE/Other Defense-Exploratory Development			2,150
						88

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					

USAF	RDTE/Other Defense-Exploratory Development	\$	550
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STATE TOTAL

2,788

Mass

NAVY	RDTE/Other Defense-Exploratory Development	135
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Ohio

ARMY	RDTE/Other Defense-Exploratory Development	423
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CONTRACTOR TOTAL

3,377

LSI INC

ARMY	RDTE/Other Defense-Exploratory Development	275
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LTV AEROSPACE & DEF CO

ARMY	RDTE/Other Defense-Exploratory Development	112
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Texas

USAF	RDTE/Other Defense-Exploratory Development	147
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CONTRACTOR TOTAL

259

LU C LAB

ARMY	RDTE/Other Defense-Exploratory Development	50
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M T L SYSTEMS INC

USAF	RDTE/Other Defense-Exploratory Development	1,037
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M/A COM INC

USAF	RDTE/Other Defense-Exploratory Development	50
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M/A COM LINKABIT INC

USAF	RDTE/Other Defense-Exploratory Development	173
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MAC AULAY BROWN INC

USAF	RDTE/Other Defense-Exploratory Development	659
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MADEN TECH CONSULTING INC

ARMY	RDTE/Other Defense-Exploratory Development	445
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MAGNAVOX GOVT & INDSTR ELCTR

ARMY	RDTE/Other Defense-Exploratory Development	979
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Indiana

NAVY	RDTE/Other Defense-Exploratory Development	363
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Ohio

USAF	RDTE/Other Defense-Exploratory Development	226
------	--	-----

STATE TOTAL

1,568

MANTECH INTERNATIONAL CORP

USAF	RDTE/Other Defense-Exploratory Development	3,212
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Virginia

USAF	RDTE/Other Defense-Exploratory Development	217
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CONTRACTOR TOTAL

5,429

MARK RESOURCES INC

ARMY	RDTE/Other Defense-Exploratory Development	50
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MARTIN MARIETTA CORPORATION

ARMY	RDTE/Other Defense-Exploratory Development	2,322
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Colorado

USAF	RDTE/Other Defense-Exploratory Development	100
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STATE TOTAL

2,422

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
			ARMY	RDTE/Other Defense-Exploratory Development	\$ 7,031
			USAF	RDTE/Other Defense-Exploratory Development	405
		STATE TOTAL			7,436
			ARMY	RDTE/Other Defense-Exploratory Development	204
			NAVY	RDTE/Other Defense-Exploratory Development	144
			USAF	RDTE/Other Defense-Exploratory Development	216
		STATE TOTAL			564
					10,422
	CONTRACTOR TOTAL				
	MASCON ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	224
	MASSACHSETTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	3,276
			NAVY	RDTE/Other Defense-Exploratory Development	2,736
			USAF	RDTE/Other Defense-Exploratory Development	1,000
		STATE TOTAL			7,012
					94
	MAXIM TECHNOLOGIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	
	MAXWELL LABORATORIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	29,193
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	168
					29,361
	CONTRACTOR TOTAL				
	MAYO FOUNDATION	Minnesota	USAF	RDTE/Other Defense-Exploratory Development	294
	MC CAY TOOL & ENGINEERING CO	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	33
	MC DANIEL JOHN L ENTERPRISES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	49
	MCDONNELL DOUGLAS CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	2,130
			USAF	RDTE/Other Defense-Exploratory Development	72
		STATE TOTAL			2,202
			ARMY	RDTE/Other Defense-Exploratory Development	3,111
			USAF	RDTE/Other Defense-Exploratory Development	2,971
		STATE TOTAL			6,082
					265
	CONTRACTOR TOTAL	Texas	USAF	RDTE/Other Defense-Exploratory Development	8,549

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD92 (CONTINUED)					
	MECHANICAL TECHNOLOGY INC	New York	USAF	RDTE/Other Defense-Exploratory Development	\$ 86
	MEI ASSOCIATES INC	Mass	USAF	RDTE/Other Defense-Exploratory Development	532
	MELLEN COMPANY INC	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	49
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	300
	MERIT TECHNOLOGY INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	100
			USAF	RDTE/Other Defense-Exploratory Development	73
		STATE TOTAL			173
	MERIX CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	49
	MERRIFIELD LABORATORIES INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	100
	MESA INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	629
	METATECH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	1,705
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Exploratory Development	871
	MIAMI VALLEY RESEARCH INST	Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,458
	MICROELECTRONICS	Texas	ARMY	RDTE/Other Defense-Exploratory Development	3,311
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Defense-Exploratory Development	35
	MIDWEST SYSTEMS RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	1,151
	MILLITECH CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	235
	MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Other Defense-Exploratory Development	225
	MINNESOTA MIN & MFG COMPANY	Minnesota	ARMY	RDTE/Other Defense-Exploratory Development	8,137
			USAF	RDTE/Other Defense-Exploratory Development	144
		STATE TOTAL			8,281
	MIRAGE SYSTEMS	California	ARMY	RDTE/Other Defense-Exploratory Development	45
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	11,890
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	54
		Ohio	USAF	RDTE/Other Defense-Exploratory Development	141
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				
	MOLZEN CORBIN & ASSOCIATES PA	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	12,134
	MRS TECH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	240
	MRV TECHNOLOGIES INC	California	NAVY	RDTE/Other Defense-Exploratory Development	1,000
	MSNW INC	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	49 245 260
	STATE TOTAL				
	N K F ENGINEERING INC	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	505 294 50
	STATE TOTAL				
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Defense-Exploratory Development	344
	NATIONAL CNCL ON RADTN PRICTN	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	250
	NATIONAL SEC PLG ASSOC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	50
	NATIONAL SECURITY RESEARCH	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	815
	NETWORK SOLUTIONS INC	Virginia	USAF	RDTE/Other Defense-Exploratory Development	650
	NEW ENGLAND RESEARCH INC	Vermont	ARMY	RDTE/Other Defense-Exploratory Development	700
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	50
	NEW MEXICO STATE OF	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	48
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development	65
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	100 11,878 83
	STATE TOTAL				
	NORDEN SYSTEMS INC	Conn	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	11,961 682 150
	STATE TOTAL				
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Other Defense-Exploratory Development	832
	STATE TOTAL				
	229				

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AD92 (CONTINUED)					
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development	\$ 914
	NORTHROP CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	224
			USAF	RDTE/Other Defense-Exploratory Development	2,203
	STATE TOTAL				2,427
	CONTRACTOR TOTAL				319
		Illinois	USAF	RDTE/Other Defense-Exploratory Development	2,746
	NORTHWEST RESEARCH ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Exploratory Development	30
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	117
	ODYSSEY CONTRACTING COMPANY	New York	USAF	RDTE/Other Defense-Exploratory Development	46
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Exploratory Development	675
	OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Defense-Exploratory Development	40
			USAF	RDTE/Other Defense-Exploratory Development	185
	STATE TOTAL				225
	CONTRACTOR TOTAL				897
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development	49
	OMEGA INTERNATIONAL TECHNOLOGY	Illinois	NAVY	RDTE/Other Defense-Exploratory Development	425
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Exploratory Development	50
	OPTELECOM INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	124
	OPTICAL SHIELDS LIMITED	California	ARMY	RDTE/Other Defense-Exploratory Development	43
	OPTICOAT ASSOCIATES	Mass	NAVY	RDTE/Other Defense-Exploratory Development	487
	OPTRON SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	100
			NAVY	RDTE/Other Defense-Exploratory Development	587
	STATE TOTAL				250
	ORTEL CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development	50
	OVONIC IMAGING SYSTEMS INC	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	49
	P S I INTERNATIONAL INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD92 (CONTINUED)

PACER SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$	98
		NAVY	RDTE/Other Defense-Exploratory Development		30
STATE TOTAL					128
Penn	NAVY	RDTE/Other Defense-Exploratory Development		1,457	
CONTRACTOR TOTAL					1,585
PACIFIC MONOLITHICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		50
PACIFIC SIERRA RESEARCH CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		3,183
	NAVY	RDTE/Other Defense-Exploratory Development		67	
STATE TOTAL					3,250
Virginia	ARMY	RDTE/Other Defense-Exploratory Development		50	
CONTRACTOR TOTAL					3,300
PAGE AVJET CORPORATION	D.C.	ARMY	RDTE/Other Defense-Exploratory Development		66
PALISADES INST FOR RES SVCS	New York	USAF	RDTE/Other Defense-Exploratory Development		1,350
PAR TECHNOLOGY CORPORATION	Conn	USAF	RDTE/Other Defense-Exploratory Development		153
	New York	ARMY	RDTE/Other Defense-Exploratory Development		82
	USAF	RDTE/Other Defense-Exploratory Development		3,210	
STATE TOTAL					3,292
CONTRACTOR TOTAL					3,445
PARACOM	Illinois	NAVY	RDTE/Other Defense-Exploratory Development		602
PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		41
PDA ENGINEERING	California	ARMY	RDTE/Other Defense-Exploratory Development		1,162
	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development		58
CONTRACTOR TOTAL					1,220
PEDERSEN RESEARCH INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		82
PENCO AEROPLEX INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		1,055-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	PENNSYLVANIA STATE UNIV INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development	\$ 626
	PENNWALT CORPORATION	Penn	ARMY	RDTE/Other Defense-Exploratory Development	1,466
	PENNY & GILES DATA SYSTEMS	Georgia	NAVY	RDTE/Other Defense-Exploratory Development	82
	PERCEPTRONICS INC	California	ARMY	RDTE/Other Defense-Exploratory Development	15,042
	PHASEX CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development	67
	PHOTO METRIC INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	150
	PHOTONICS SYSTEMS INC	Florida	ARMY	RDTE/Other Defense-Exploratory Development	200
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	50
	CONTRACTOR TOTAL				250
	PHYSICAL OPTICS CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	560 371
		STATE TOTAL			931
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Defense-Exploratory Development	4,589
	PHYSICAL SCIENCES INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	200
	PHYSICON INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	775
	PHYSICS INTERNATIONAL COMPANY	California	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	11,528 400
		STATE TOTAL			11,928
	PIERCE JOHN B FOUNDATION LAB	Conn	USAF	RDTE/Other Defense-Exploratory Development	150
	PINNACLE RESEARCH INSTITUTE	California	ARMY	RDTE/Other Defense-Exploratory Development	660
	PINSON ASSOCIATES INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	339
	PLANAR SYSTEMS INC	Oregon	ARMY	RDTE/Other Defense-Exploratory Development	50
	PLANNING RESEARCH CORPORATION	Hawaii	USAF	RDTE/Other Defense-Exploratory Development	101
		Virginia	USAF	RDTE/Other Defense-Exploratory Development	424
	CONTRACTOR TOTAL				525

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AD92 (CONTINUED)					
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	1,082
	PLASMA QUEST INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	48
	PLASMATRON COATINGS & SYSTEMS	Penn	ARMY	RDTE/Other Defense-Exploratory Development	239
	POLYTECHNIC UNIV OF NEW YORK	New York	ARMY	RDTE/Other Defense-Exploratory Development	435
	POLYTRONIX INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	145
	POTOMAC PHOTONICS INC	Maryland	ARMY	RDTE/Other Defense-Exploratory Development	200
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	56
	PRINCETON UNIVERSITY	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	934
	PROCESS ANALYSTS INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	54
	PROMETHEUS INC	Rhode Isld	ARMY	RDTE/Other Defense-Exploratory Development	86
	PROPULSION SCIENCE TECHNOLOGY	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development	259
	PSC INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	154
	PULSE SCIENCES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	429
	QUAD DESIGN TECH INC	California	NAVY	RDTE/Other Defense-Exploratory Development	100
	QUANSCAN INC	California	ARMY	RDTE/Other Defense-Exploratory Development	90
	QUANTIC INDUSTRIES INC	California	ARMY	RDTE/Other Defense-Exploratory Development	52
	QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	2,425
	QUESTECH INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	65
			NAVY	RDTE/Other Defense-Exploratory Development	824
	STATE TOTAL				889
	R & D ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development	11,640
			NAVY	RDTE/Other Defense-Exploratory Development	570
	STATE TOTAL				12,210
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	579
		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	50
		GERMANY, F	ARMY	RDTE/Other Defense-Exploratory Development	2,106

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	RACAL COMMUNICATIONS INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development	14,945
	RADIANT TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	80
	RALSON CORP	Utah	ARMY	RDTE/Other Defense-Exploratory Development	41
	RAYTHEON COMPANY	California	NAVY	RDTE/Other Defense-Exploratory Development	49
		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	123
		Mass	ARMY	RDTE/Other Defense-Exploratory Development	99
			USAF	RDTE/Other Defense-Exploratory Development	20,791
				RDTE/Other Defense-Exploratory Development	2,521
	STATE TOTAL				23,312
	CONTRACTOR TOTAL	Rhode Isld	NAVY	RDTE/Other Defense-Exploratory Development	100
		California	NAVY	RDTE/Other Defense-Exploratory Development	23,634
		Penn	NAVY	RDTE/Other Defense-Exploratory Development	535
	RAYTHEON NORTHROP INWS JNT VNTR				60
	CONTRACTOR TOTAL				595
	RAYTHEON SERVICE COMPANY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	7,500
			USAF	RDTE/Other Defense-Exploratory Development	150
	STATE TOTAL				7,650
	CONTRACTOR TOTAL	Ohio	USAF	RDTE/Other Defense-Exploratory Development	460
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	8,110
	REMSA INC	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	RENSSELAER POLYTECHNIC INST		NAVY	RDTE/Other Defense-Exploratory Development	50
					260
	STATE TOTAL				310
	RESEARCH ANALYSIS & MAINT	Texas	ARMY	RDTE/Other Defense-Exploratory Development	5,472
	RESEARCH PLANNING INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	100

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 204 373 487
		STATE TOTAL			1,064
	RFA TECHNOLOGY	N.H.	ARMY	RDTE/Other Defense-Exploratory Development	54
	RICARDO ENGINEERING LIMITED	UNITED KIN	NAVY	RDTE/Other Defense-Exploratory Development	123
	RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other Defense-Exploratory Development	107
	ROBINSON D G CORP	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	46
	ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other Defense-Exploratory Development	332
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	30 412 991
		STATE TOTAL			1,433
	CONTRACTOR TOTAL				350
	ROHR INDUSTRIES INC	Georgia	ARMY	RDTE/Other Defense-Exploratory Development	1,783
	ROTHE DEVELOPMENTS INC	California	USAF	RDTE/Other Defense-Exploratory Development	130
	RUTGERS THE STATE UNIVERSITY	Texas	USAF	RDTE/Other Defense-Exploratory Development	445
	S F A INC	New Jersey	NAVY	RDTE/Other Defense-Exploratory Development	212
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	932
		Maryland	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	132 3,402
		STATE TOTAL			3,534
	CONTRACTOR TOTAL				4,466
	S S G INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	130
	SANDERS ASSOC GEN ELECTRIC JV	N.H.	USAF	RDTE/Other Defense-Exploratory Development	99
	SANDERS ASSOCIATES INTERNATINL	N.H.	USAF	RDTE/Other Defense-Exploratory Development	903

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AD92 (CONTINUED)

SCHAFFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other	Defense-Exploratory Development	1,348
		NAVY	RDTE/Other	Defense-Exploratory Development	345
		USAF	RDTE/Other	Defense-Exploratory Development	274
	STATE TOTAL				1,967
SCHMIDT INSTRUMENTS	Texas	NAVY	RDTE/Other	Defense-Exploratory Development	250
SCHMITT TECHNOLOGY	Conn	ARMY	RDTE/Other	Defense-Exploratory Development	50
SCHUYLER DYNAMICS INC	New York	ARMY	RDTE/Other	Defense-Exploratory Development	48
SCHWARTZ ELECTRO-OPTICS INC	Mass	NAVY	RDTE/Other	Defense-Exploratory Development	100
SCI TEC INC	New Jersey	USAF	RDTE/Other	Defense-Exploratory Development	133
SCIENCE & ENGINEERING ASSOC	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development	1,497
SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	755
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other	Defense-Exploratory Development	776
	California	ARMY	RDTE/Other	Defense-Exploratory Development	22,793
		NAVY	RDTE/Other	Defense-Exploratory Development	826
		USAF	RDTE/Other	Defense-Exploratory Development	109
	STATE TOTAL				23,728
	Nevada	ARMY	RDTE/Other	Defense-Exploratory Development	56
	New Mexico	ARMY	RDTE/Other	Defense-Exploratory Development	1,457
		USAF	RDTE/Other	Defense-Exploratory Development	79
	STATE TOTAL				1,536
	Ohio	USAF	RDTE/Other	Defense-Exploratory Development	1,660
	Penn	USAF	RDTE/Other	Defense-Exploratory Development	33
	Virginia	ARMY	RDTE/Other	Defense-Exploratory Development	20,927
		NAVY	RDTE/Other	Defense-Exploratory Development	200
		USAF	RDTE/Other	Defense-Exploratory Development	1,485
	STATE TOTAL				22,612
CONTRACTOR TOTAL					50,401

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD92 (CONTINUED)					
	SCIENCE RESEARCH LABORATORY	Mass	ARMY	RDTE/Other Defense-Exploratory Development	\$ 597
	SCIENTIFIC COMPUTING ASSOC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	245
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Defense-Exploratory Development	280
			NAVY	RDTE/Other Defense-Exploratory Development	64
	STATE TOTAL				344
	SEARCH TECHNOLOGY INC	Georgia	USAF	RDTE/Other Defense-Exploratory Development	155
	SECURITY TECHNOLOGIES INTL	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	204
	SECURITY TECHNOLOGY SYSTEMS CO	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	41
	SEMETEX CORP	California	USAF	RDTE/Other Defense-Exploratory Development	267
	SENSCI CORP	Virginia	USAF	RDTE/Other Defense-Exploratory Development	512
	SENSIS CORPORATION	New York	USAF	RDTE/Other Defense-Exploratory Development	424
	SEVEN MOUNTAINS SCIENTIFIC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	SIGMA TECH INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	250
	SIGNAL PROCESSING TECHNOLOGY	California	ARMY	RDTE/Other Defense-Exploratory Development	59
	SIGNAL RESEARCH CENTER INC	Illinois	USAF	RDTE/Other Defense-Exploratory Development	330
	SIMULATION TECHNOLOGIES INC	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	719
		Ohio	ARMY	RDTE/Other Defense-Exploratory Development	1,475
	CONTRACTOR TOTAL				2,194
	SMARTEK	New York	ARMY	RDTE/Other Defense-Exploratory Development	50
	SOCIETY OF AUTO ENGINEERS	Penn	USAF	RDTE/Other Defense-Exploratory Development	80
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	570
	SOFTWARE OPTIONS INC	Mass	NAVY	RDTE/Other Defense-Exploratory Development	627
	SOFTWARE PRDUCTIVITY SOLUTIONS	Florida	USAF	RDTE/Other Defense-Exploratory Development	519
	SOL TELECOMMUNICATION SERVICE	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	318
		Virginia	ARMY	RDTE/Other Defense-Exploratory Development	108

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD32 (CONTINUED)

CONTRACTOR TOTAL					\$	426
SONOMA RESEARCH CO	California	ARMY	RDTE/Other Defense-Exploratory Development		50	
SOUTHEASTN CTR ELECTR ENG ED	California	USAF	RDTE/Other Defense-Exploratory Development		142	
	Florida	USAF	RDTE/Other Defense-Exploratory Development		777	
	Utah	USAF	RDTE/Other Defense-Exploratory Development		34	
CONTRACTOR TOTAL					953	
SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development		4,283	
SOUTHERN RESEARCH INSTITUTE	Alabama	USAF	RDTE/Other Defense-Exploratory Development		364	
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		250	
SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Defense-Exploratory Development		149	
		USAF	RDTE/Other Defense-Exploratory Development		442	
STATE TOTAL					591	
SOUTHWESTERN OH CNCL	Ohio	USAF	RDTE/Other Defense-Exploratory Development		246	
SPACE DATA CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development		767	
SPARTA INC	California	ARMY	RDTE/Other Defense-Exploratory Development		554	
		NAVY	RDTE/Other Defense-Exploratory Development		62	
		USAF	RDTE/Other Defense-Exploratory Development		137	
STATE TOTAL					753	
	Mass	NAVY	RDTE/Other Defense-Exploratory Development		148	
CONTRACTOR TOTAL					901	
SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Defense-Exploratory Development		466	
SPECTRA TECHNOLOGY INC	Washington	USAF	RDTE/Other Defense-Exploratory Development		143	
SPEECH SYSTEMS INC	California	ARMY	RDTE/Other Defense-Exploratory Development		89	
SPIRE CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		452	
		NAVY	RDTE/Other Defense-Exploratory Development		50	
STATE TOTAL					502	

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AD92 (CONTINUED)					
	SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$ 2,614 658 2,764
		STATE TOTAL			6,036
		D.C.	NAVY	RDTE/Other Defense-Exploratory Development	246
	CONTRACTOR TOTAL				6,282
	SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Exploratory Development	140
	STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Exploratory Development	578
	STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Exploratory Development	2,230
	STANFORD UNIVERSITY BOOKSTORE	California	USAF	RDTE/Other Defense-Exploratory Development	590
	STATE UNIVERSITY OF NEW YORK	New York	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	48 219
		STATE TOTAL			267
	STORAGE CONCEPTS INCORPORATED	California	NAVY	RDTE/Other Defense-Exploratory Development	79
	STRAINOPTIC TECHNOLOGIES INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	50
	STRATEGIC ANALYSIS INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development	50
	SUNBURST RECOVERY INC	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	180
	SUNDSTRAND CORPORATION	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	708 427
		STATE TOTAL			1,135
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Exploratory Development	2,150
	SVERDRUP TECHNOLOGY INC	Tennessee	ARMY	RDTE/Other Defense-Exploratory Development	130
	SWERLING MANASSE & SMITH INC	California	NAVY	RDTE/Other Defense-Exploratory Development	646
	SYMBIOTICS INC	Mass	ARMY	RDTE/Other Defense-Exploratory Development	294
	SYMETRIX CORPORATION	Colorado	ARMY	RDTE/Other Defense-Exploratory Development	299
	SYNERTECH ASSOCIATES INC	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	915
	SYNLIZE	Mass	USAF	RDTE/Other Defense-Exploratory Development	255

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AD92 (CONTINUED)

SYRACUSE RESEARCH CORP	New York	USAF	RDTE/Other Defense-Exploratory Development	\$	824
SYRACUSE UNIVERSITY	New York	USAF	RDTE/Other Defense-Exploratory Development		2,869
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		357
SYSTEM DYNAMICS INTERNATIONAL	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		220
	Florida	ARMY	RDTE/Other Defense-Exploratory Development		5,353
CONTRACTOR TOTAL					5,573
SYSTEM PLANNING CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		115
	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		3,420
		USAF	RDTE/Other Defense-Exploratory Development		99
CONTRACTOR TOTAL					3,519
SYSTEMS EXPLORATION INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development		3,634
	Texas	USAF	RDTE/Other Defense-Exploratory Development		258
CONTRACTOR TOTAL					39
SYSTEMS RES APPLICATIONS CORP	Virginia	USAF	RDTE/Other Defense-Exploratory Development		297
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Exploratory Development		50
	Texas	USAF	RDTE/Other Defense-Exploratory Development		4,671
CONTRACTOR TOTAL					834
SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Exploratory Development		5,505
SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development		230
T S C INC	California	USAF	RDTE/Other Defense-Exploratory Development		1,141
TACAN CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development		481
TALLEY INDUSTRIES INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development		99
TDA RESEARCH INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development		390
					154

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AD92 (CONTINUED)

TE TECHNOLOGY		Michigan	ARMY	RDTE/Other Defense-Exploratory Development	\$ 50
TECH REPS INCORPORATED		Maryland	ARMY	RDTE/Other Defense-Exploratory Development	28
		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	394
CONTRACTOR TOTAL					422
TECHNICAL DIRECTIONS INC		Michigan	ARMY	RDTE/Other Defense-Exploratory Development	120
TECHNICAL RESEARCH ASSOCIATES		California	ARMY	RDTE/Other Defense-Exploratory Development	252
TECHNICO SOUTHWEST INC		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	200
TECHNOLOGY INTERNATIONAL CORP		Mass	ARMY	RDTE/Other Defense-Exploratory Development	297
TELECOMMUNICATION SCIENCE ASSOC		Texas	ARMY	RDTE/Other Defense-Exploratory Development	34
TELEDYNE INDUSTRIES INC		Alabama	NAVY	RDTE/Other Defense-Exploratory Development	118
		California	ARMY	RDTE/Other Defense-Exploratory Development	4,061
		Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development	400 250
CONTRACTOR TOTAL					650
TELEMARC		Virginia	NAVY	RDTE/Other Defense-Exploratory Development	4,829
TEMPLE UNVRSTY CMNWLTH SYS		Penn	NAVY	RDTE/Other Defense-Exploratory Development	658
TERA COMPUTER CO		Washington	ARMY	RDTE/Other Defense-Exploratory Development	470
TERRA TEK INC		Utah	ARMY	RDTE/Other Defense-Exploratory Development	500
TETRA CORPORATION		New Mexico	ARMY	RDTE/Other Defense-Exploratory Development	452
TEXAS A & M RESEARCH FDN		Texas	USAF	RDTE/Other Defense-Exploratory Development	656
TEXAS A & M UNIV SYS THE		Texas	ARMY	RDTE/Other Defense-Exploratory Development	150
TEXAS INSTRUMENTS INCORPORATED		Texas	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development	125 5,539 1,548 1,175

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AD92 (CONTINUED)

	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Defense-Exploratory Development	8,262
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Defense-Exploratory Development	773
	TFR TECHNOLOGIES INC	Iowa	ARMY	RDTE/Other Defense-Exploratory Development	828
	THE ANALYTIC SCIENCE CORP	Mass	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	50 166 496
	STATE TOTAL				662
	Ohio	USAF	RDTE/Other Defense-Exploratory Development	398	
	CONTRACTOR TOTAL				1,060
	THINKING MACHINES CORPORATION	Mass	ARMY NAVY	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	1,050 879
	STATE TOTAL				1,929
	Alabama	ARMY	RDTE/Other Defense-Exploratory Development	1,377	
	Virginia	NAVY	RDTE/Other Defense-Exploratory Development	141	
	California	ARMY	RDTE/Other Defense-Exploratory Development	847	
	California	NAVY	RDTE/Other Defense-Exploratory Development	55	
	Texas	USAF	RDTE/Other Defense-Exploratory Development	40	
	CONTRACTOR TOTAL				95
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Exploratory Development	50
	TRANS SCIENCE CORP	California	NAVY	RDTE/Other Defense-Exploratory Development	250
	TRANSARC CORP	Penn	ARMY	RDTE/Other Defense-Exploratory Development	513
	TRANSDUCER RESEARCH INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	50
	TRI TESSCO	Texas	NAVY	RDTE/Other Defense-Exploratory Development	315
	TRICOR SYSTEMS INC	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	25
	TRUSTED INFORMATION SYSTEMS	Maryland	USAF	RDTE/Other Defense-Exploratory Development	2,941

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AD92 (CONTINUED)						
	TRW INC	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	826 589 1,213
		STATE TOTAL				2,628
		Ohio	USAF	RDTE/Other Defense-Exploratory Development		489
		Penn	ARMY	RDTE/Other Defense-Exploratory Development		3,117
	TTL TECHNIQUES	UNITED KIN	NAVY	RDTE/Other Defense-Exploratory Development		50
	UK SDIPO MINISTRY OF DEFENCE	California	ARMY	RDTE/Other Defense-Exploratory Development		250
	ULTRAMET	Ohio	ARMY	RDTE/Other Defense-Exploratory Development		50
	ULTRANET SYSTEMS INC	California	USAF	RDTE/Other Defense-Exploratory Development		46
	ULTRASYSTEMS DEFENSE & SPACE	California	USAF	RDTE/Other Defense-Exploratory Development		290
	ULTRASYSTEMS WESTERN CONSTR	New Jersey	ARMY	RDTE/Other Defense-Exploratory Development		140
	UNION CARBIDE CHEM & PLAS CO	Arizona	USAF	RDTE/Other Defense-Exploratory Development		59
	UNISYS CORPORATION	Ohio	USAF	RDTE/Other Defense-Exploratory Development		64
						153
						217
	CONTRACTOR TOTAL					728
	UNITED APPLIED TECHN	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		179
	UNITED SEAL & RUBBER COMPANY	Alabama	ARMY	RDTE/Other Defense-Exploratory Development		
	UNITED TECHNOLOGIES CORP	California	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		985 1,512
		STATE TOTAL				2,497
		Conn	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		65 990
		STATE TOTAL				1,055
		Florida	NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		2,453 6,071

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AD92 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL	\$
UNIVERSAL ANALYTICS INC	California	USAF	RDTE/Other Defense-Exploratory Development
UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development
UNIVERSAL SERVICES CO INC	New York	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Other Defense-Exploratory Development
UNIVERSITY NC AT CHAPEL HL	N Carolina	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSITY NOTRE DAME	Indiana	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF ARIZONA	Arizona	ARMY USAF	RDTE/Other Defense-Exploratory Development
STATE TOTAL			306
UNIVERSITY OF ARKANSAS	Arkansas	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF CALIFORNIA	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
STATE TOTAL			6,346
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Exploratory Development
	Ohio	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development
STATE TOTAL			7,757
CONTRACTOR TOTAL			
UNIVERSITY OF DELAWARE	Delaware	NAVY	RDTE/Other Defense-Exploratory Development
UNIVERSITY OF DENVER	New Mexico	ARMY	RDTE/Other Defense-Exploratory Development

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AD92 (CONTINUED)

UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Defense-Exploratory Development	\$	51
UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Defense-Exploratory Development		50
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Defense-Exploratory Development		50
		NAVY	RDTE/Other Defense-Exploratory Development		461
		USAF	RDTE/Other Defense-Exploratory Development		219
	STATE TOTAL				730
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Defense-Exploratory Development		180
UNIVERSITY OF KENTUCKY	Kentucky	NAVY	RDTE/Other Defense-Exploratory Development		65
UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		1,140
		NAVY	RDTE/Other Defense-Exploratory Development		206
		USAF	RDTE/Other Defense-Exploratory Development		410
	STATE TOTAL				1,756
UNIVERSITY OF MASSACHUSETTS	Mass	NAVY	RDTE/Other Defense-Exploratory Development		226
		USAF	RDTE/Other Defense-Exploratory Development		200
	STATE TOTAL				426
UNIVERSITY OF OKLAHOMA	Oklahoma	ARMY	RDTE/Other Defense-Exploratory Development		596
UNIVERSITY OF PENNSYLVANIA	Penn	NAVY	RDTE/Other Defense-Exploratory Development		733
UNIVERSITY OF ROCHESTER	New York	NAVY	RDTE/Other Defense-Exploratory Development		50
UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Exploratory Development		100
UNIVERSITY OF STHERN CLFORNIA	California	ARMY	RDTE/Other Defense-Exploratory Development		3,075
		NAVY	RDTE/Other Defense-Exploratory Development		1,045
		USAF	RDTE/Other Defense-Exploratory Development		1,050
	STATE TOTAL				5,170
UNIVERSITY OF TEXAS AT DALLAS	Texas	ARMY	RDTE/Other Defense-Exploratory Development		250
UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Defense-Exploratory Development		256
		USAF	RDTE/Other Defense-Exploratory Development		40
	STATE TOTAL				296
UNIVERSITY OF UTAH	Utah	NAVY	RDTE/Other Defense-Exploratory Development		150

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AD92 (CONTINUED)

UNIVERSITY OF VIRGINIA	Virginia	ARMY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development	\$	224 252
STATE TOTAL					
UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Other Defense-Exploratory Development		476
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other Defense-Exploratory Development		303
UNIVERSITY RES ENGINEERS ASSOC	Mass	ARMY	RDTE/Other Defense-Exploratory Development		405
USER TECHNOLOGY ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		290
UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Exploratory Development		2,324
UTD INC	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		193
V M C I INC	California	ARMY	RDTE/Other Defense-Exploratory Development		737
VACUUM BARRIER CORPORATION	Mass	ARMY	RDTE/Other Defense-Exploratory Development		115
VALAIIKA INC	Penn	NAVY	RDTE/Other Defense-Exploratory Development		26
VARI L COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		38
VARIAN ASSOCIATES INC	California	ARMY NAVY USAF	RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development RDTE/Other Defense-Exploratory Development		415 409 666 200
STATE TOTAL					
VECTOR MICRO	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		1,275
VECTOR RESEARCH COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Exploratory Development		686
VECTOR RESEARCH INC	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		115
CONTRACTOR TOTAL					
VERITAY TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Exploratory Development		30
VIASAT INC	California	ARMY	RDTE/Other Defense-Exploratory Development		350
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	NAVY	RDTE/Other Defense-Exploratory Development		380
CONTRACTOR TOTAL					
50					
50					
1,193					

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AD92 (CONTINUED)

VREULS RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Exploratory Development	\$	43
WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		100
WAGNER DANIEL H ASSOCIATES	California	ARMY	RDTE/Other Defense-Exploratory Development		51
	Penn	NAVY	RDTE/Other Defense-Exploratory Development		490
CONTRACTOR TOTAL					541
WALCOFF & ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Exploratory Development		121
WASHINGTON STATE UNIVERSITY	Washington	ARMY	RDTE/Other Defense-Exploratory Development		183
WASHINGTON UNIVERSITY MED CTR	Missouri	USAF	RDTE/Other Defense-Exploratory Development		99
WCI HOLDINGS CORPORATION	Florida	NAVY	RDTE/Other Defense-Exploratory Development		132
WEIDLINGER ASSOCIATES INC	California	ARMY	RDTE/Other Defense-Exploratory Development		878
	New York	ARMY	RDTE/Other Defense-Exploratory Development		1,556
CONTRACTOR TOTAL					2,434
WEST VIRGINIA UNIVERSITY	W Virginia	USAF	RDTE/Other Defense-Exploratory Development		50
WESTERN INSTRUMENT CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development		7,225
WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Exploratory Development		1,900
WESTINGHOUSE ELECTRIC CORP	California	ARMY	RDTE/Other Defense-Exploratory Development		4,946
	D.C.	NAVY	RDTE/Other Defense-Exploratory Development		60
	Maryland	ARMY	RDTE/Other Defense-Exploratory Development		365
		NAVY	RDTE/Other Defense-Exploratory Development		50
		USAF	RDTE/Other Defense-Exploratory Development		2,777
STATE TOTAL					3,192
	Penn	ARMY	RDTE/Other Defense-Exploratory Development		1,462
		NAVY	RDTE/Other Defense-Exploratory Development		60
		USAF	RDTE/Other Defense-Exploratory Development		470
CONTRACTOR TOTAL					1,992
					10,190

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AD92 (CONTINUED)					
	WESTINGHOUSE R & D CENTER	Penn	ARMY	RDTE/Other Defense-Exploratory Development	849
	WILLIAMS INTERNATIONAL CORP	Michigan	ARMY	RDTE/Other Defense-Exploratory Development	787
			USAF	RDTE/Other Defense-Exploratory Development	538
	STATE TOTAL				1,325
	WILLIS KAPLAN & ASSOC INC	Illinois	USAF	RDTE/Other Defense-Exploratory Development	49
	WINZEN INTERNATIONAL INC	Texas	ARMY	RDTE/Other Defense-Exploratory Development	247
	WOODS HOLE OCNRPIC INSTITUTE	Mass	NAVY	RDTE/Other Defense-Exploratory Development	3,892
	WOOLLAM J A CO	Nebraska	ARMY	RDTE/Other Defense-Exploratory Development	100
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Exploratory Development	303
	XACTON CORPORATION	Arizona	ARMY	RDTE/Other Defense-Exploratory Development	65
	XEROX CORPORATION	California	ARMY	RDTE/Other Defense-Exploratory Development	3,099
			NAVY	RDTE/Other Defense-Exploratory Development	100
	STATE TOTAL				3,199
	CONTRACTOR TOTAL				264
		Mass	USAF	RDTE/Other Defense-Exploratory Development	3,463
	XI MAGNETICS INC	Penn	ARMY	RDTE/Other Defense-Exploratory Development	36
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Defense-Exploratory Development	186
	ZENITH ELECTRONICS CORPORATION	Illinois	ARMY	RDTE/Other Defense-Exploratory Development	1,250
	ZYBRON INC	Ohio	USAF	RDTE/Other Defense-Exploratory Development	123
	R&D TOTAL				1,028,392
AD93	A A I CORPORATION	Maryland	ARMY	RDTE/Other Defense-Advanced Development	230
	ACCUDYNE CORP	Wisconsin	ARMY	RDTE/Other Defense-Advanced Development	1,692
	ACUREX CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	59
		Ohio	USAF	RDTE/Other Defense-Advanced Development	1,960
	CONTRACTOR TOTAL				2,019
	ADTECH SYSTEM RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	27

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AD93 (CONTINUED)

ADVANCED COMMUNICATIONS INC	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	\$ 85
ADVANCED DECISION SYSTEMS	California	ARMY	RDTE/Other	Defense-Advanced Development	784
	Virginia	USAF	RDTE/Other	Defense-Advanced Development	198
CONTRACTOR TOTAL					982
ADVANCED PROGRAMMING CONCEPTS	Texas	USAF	RDTE/Other	Defense-Advanced Development	59
ADVANCED RESOURCE TECHNOLOGIES	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	83
ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Other	Defense-Advanced Development	70
ADVANCED TECHNOLOGY SYSTEMS	Virginia	NAVY	RDTE/Other	Defense-Advanced Development	45
AERODYNE RESEARCH INC	Mass	NAVY	RDTE/Other	Defense-Advanced Development	286
AEROFLEX SYSTEMS	Virginia	NAVY	RDTE/Other	Defense-Advanced Development	493
AEROJET	California	USAF	RDTE/Other	Defense-Advanced Development	4,465
ALABAMA A & M UNIVERSITY	Alabama	USAF	RDTE/Other	Defense-Advanced Development	42
ALPHATECH INC	Mass	USAF	RDTE/Other	Defense-Advanced Development	1,114
AMBER ENGINEERING INC	California	ARMY	RDTE/Other	Defense-Advanced Development	250
AMERASIA TECHNOLOGY INC	California	USAF	RDTE/Other	Defense-Advanced Development	166
AMERICAN FOUNDATION	Maryland	NAVY	RDTE/Other	Defense-Advanced Development	50
AMERICAN ROCKET CO	California	ARMY	RDTE/Other	Defense-Advanced Development	175-
ANALYSIS & TECHNOLOGY INC	Conn	NAVY	RDTE/Other	Defense-Advanced Development	175
ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	10,329
ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other	Defense-Advanced Development	204
APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Other	Defense-Advanced Development	81
APTEC COMPUTER SYSTEMS INC	Oregon	NAVY	RDTE/Other	Defense-Advanced Development	446
AQUIDNECK SYSTEMS INTL	Rhode Isld	NAVY	RDTE/Other	Defense-Advanced Development	2,600
ARES CORPORATION	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	886

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AD93 (CONTINUED)					
	ARIZ SU COL OF ENG & APP SCIEN	Arizona	USAF	RDTE/Other Defense-Advanced Development	\$ 129
	ASSOC OF CAPE COD	Mass	NAVY	RDTE/Other Defense-Advanced Development	121
	ASTRON RESEARCH & ENGINEERING	California	ARMY	RDTE/Other Defense-Advanced Development	244
	ASTROPOWER INC	Delaware	USAF	RDTE/Other Defense-Advanced Development	50
	AT&T TECHNOLOGIES INC	N Carolina	ARMY	RDTE/Other Defense-Advanced Development	20,680
	ATLANTIC RESEARCH CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	1,070
		Maryland	NAVY	RDTE/Other Defense-Advanced Development	375
		New York	USAF	RDTE/Other Defense-Advanced Development	2,213
		Virginia	USAF	RDTE/Other Defense-Advanced Development	570
	CONTRACTOR TOTAL				4,228
	AURA SYSTEMS	California	NAVY	RDTE/Other Defense-Advanced Development	526
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,005
	AVCO CORPORATION	Mass	USAF	RDTE/Other Defense-Advanced Development	638
	AVCO RESEARCH LABORATORY INC	Hawaii	USAF	RDTE/Other Defense-Advanced Development	7,940
	B K DYNAMICS INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,300
			NAVY	RDTE/Other Defense-Advanced Development	120
	STATE TOTAL				1,420
	BABCOCK & WILCOX COMPANY THE	Louisiana	ARMY	RDTE/Other Defense-Advanced Development	1,267
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	5,482
	CONTRACTOR TOTAL				6,749
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	38
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	325
	CONTRACTOR TOTAL				363
	BALL SPACE SYSTEMS DIVISION	Colorado	ARMY	RDTE/Other Defense-Advanced Development	1,308

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

BALLENA SYSTEMS CORPORATION	California	NAVY	RDTE/Other	Defense-Advanced Development	\$ 408
BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	700 113
	STATE TOTAL				813
BAYLOR UNIVERSITY	Texas	NAVY	RDTE/Other	Defense-Advanced Development	406
BDM INTERNATIONAL INC	Florida	USAF	RDTE/Other	Defense-Advanced Development	196
	Virginia	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	21,478 340
	STATE TOTAL				21,818
					22,014
CONTRACTOR TOTAL					334
BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other	Defense-Advanced Development	375
BLIME INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	1,547
BOEING AEROSPACE & ELECTRONICS	Washington	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	2,299
	STATE TOTAL				3,846
BOEING COMPANY THE	Washington	USAF	RDTE/Other	Defense-Advanced Development	2,383
BOEING COMPUTER SUPPORT SVCS	Washington	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	31 150
	STATE TOTAL				181
BOLT BERANEK & NEWMAN INC	California	USAF	RDTE/Other	Defense-Advanced Development	907
	Mass	USAF	RDTE/Other	Defense-Advanced Development	1,527
					2,434
CONTRACTOR TOTAL					1,896
BOOZ ALLEN & HAMILTON INC	Maryland	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	306
	STATE TOTAL				2,202
BOSTON UNIVERSITY	Mass	NAVY	RDTE/Other	Defense-Advanced Development	3,781

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AD93 (CONTINUED)

BROGAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	\$ 2,069
CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other	Defense-Advanced Development	89
CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other	Defense-Advanced Development	3,292
CARNEGIE MELLON UNIVERSITY	Penn	NAVY	RDTE/Other	Defense-Advanced Development	125
CENTRE NATIONAL DETUDES SPATI	FRANCE	NAVY	RDTE/Other	Defense-Advanced Development	1,842
CENTURY COMPUTING INC	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	1,500
CIMFLEX TEKNOLEDGE CORP	California	USAF	RDTE/Other	Defense-Advanced Development	200
CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other	Defense-Advanced Development	45
COLSA INC	Alabama	ARMY	RDTE/Other	Defense-Advanced Development	1,221
COMPREHENSIVE TECHNOLOGIES INTL	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	7,112
COMPU CAD INC	Rhode Isld	ARMY	RDTE/Other	Defense-Advanced Development	98
CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other	Defense-Advanced Development	555
CORNING INC	New York	USAF	RDTE/Other	Defense-Advanced Development	100
CORTANA CORPORATION	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	618
COVALENT ASSOCIATES INC	Mass	NAVY	RDTE/Other	Defense-Advanced Development	157
CREE RESEARCH INC	N Carolina	NAVY	RDTE/Other	Defense-Advanced Development	230
CRYSTALLUME	California	NAVY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	268 65
	STATE TOTAL				333
CSA ENGINEERING INC	California	USAF	RDTE/Other	Defense-Advanced Development	779
DAMES & MOORE	Maryland	ARMY	RDTE/Other	Defense-Advanced Development	2,901
DAVID SARNOFF RESEARCH CENTER	New Jersey	ARMY USAF	RDTE/Other RDTE/Other	Defense-Advanced Development Defense-Advanced Development	375 266
	STATE TOTAL				641
DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other	Defense-Advanced Development	175

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AD93 (CONTINUED)					
	DEFENSE GROUP INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	\$ 976
	DEFENSE RESEARCH TECHNOLOGIES	Maryland	ARMY	RDTE/Other Defense-Advanced Development	801
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development	1,017
	DIGITAL RADIO CORP	California	ARMY	RDTE/Other Defense-Advanced Development	200
	DIRECTED TECHNOLOGIES INC	Virginia	USAF	RDTE/Other Defense-Advanced Development	339
	DISPLAYTECH INC	Colorado	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	247 91
		STATE TOTAL			338
	DRAPER CHARLES STARK LAB INC	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	8,063 50
		STATE TOTAL			8,113
	DREXEL UNIVERSITY	Penn	NAVY	RDTE/Other Defense-Advanced Development	40-
	DUKE UNIVERSITY	N Carolina	NAVY	RDTE/Other Defense-Advanced Development	67
	DYNA EAST CORPORATION	Penn	NAVY	RDTE/Other Defense-Advanced Development	477
	DYNAMICS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development	150
	DYNACORP APPLIED TECHNOLOGY	Ohio	USAF	RDTE/Other Defense-Advanced Development	86
	E SYSTEMS INC	Florida	USAF	RDTE/Other Defense-Advanced Development	148
		Texas	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	1,445 200
		STATE TOTAL			1,645
	CONTRACTOR TOTAL				1,793
	EAGLE PICHER INDUSTRIES INC	Missouri	USAF	RDTE/Other Defense-Advanced Development	375
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Other Defense-Advanced Development	643
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Advanced Development	32
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Advanced Development	525

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AD93 (CONTINUED)					
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Defense-Advanced Development	\$ 122
	ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	478
	EMCORE CORP	New Jersey	NAVY	RDTE/Other Defense-Advanced Development	200
	ENERGY RESEARCH CORPORATION	Conn	USAF	RDTE/Other Defense-Advanced Development	300
	ENERGY SCIENCE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development	325
	ENGINEERING & ECONOMICS RES	Florida	NAVY	RDTE/Other Defense-Advanced Development	966
	ENVIRNMNTAL TECHNOLOGIES GROUP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,800
	ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Defense-Advanced Development	50
	EPOCH ENGINEERING INC	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,169
	ERG SYSTEMS INC	New York	NAVY	RDTE/Other Defense-Advanced Development	461
	EXCELCO DEVELOPMENT INC	New York	NAVY	RDTE/Other Defense-Advanced Development	100
	EXECUTIVE RESOURCE ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Advanced Development	370
	FAIRCHILD SPACE & DEFENSE CORP	Mass	ARMY	RDTE/Other Defense-Advanced Development	294
	FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Other Defense-Advanced Development	1,018
	FASTSPAN INC	Colorado	ARMY	RDTE/Other Defense-Advanced Development	47
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Advanced Development	401
	GEMINI COMPUTERS INCORPORATED	California	USAF	RDTE/Other Defense-Advanced Development	112
	GENCORP INC	California	USAF	RDTE/Other Defense-Advanced Development	242
	GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other Defense-Advanced Development	2,071
	GENERAL ATOMICS	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	248 390
		STATE TOTAL			638
	GENERAL DYNAMICS CORPORATION	California	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	350 3,221
		STATE TOTAL			3,571

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AD93 (CONTINUED)					
	CONTRACTOR TOTAL				
	GENERAL ELECTRIC COMPANY				
		Missouri	ARMY	RDTE/Other Defense-Advanced Development	\$ 195
		Texas	USAF	RDTE/Other Defense-Advanced Development	1,742
		Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,185
					6,693
		New Jersey	ARMY	RDTE/Other Defense-Advanced Development	5,941
			USAF	RDTE/Other Defense-Advanced Development	2,545
		STATE TOTAL			8,486
		New York	NAVY	RDTE/Other Defense-Advanced Development	196
			USAF	RDTE/Other Defense-Advanced Development	3,087
		STATE TOTAL			3,283
		Penn	ARMY	RDTE/Other Defense-Advanced Development	70,897
			NAVY	RDTE/Other Defense-Advanced Development	50
			USAF	RDTE/Other Defense-Advanced Development	920
		STATE TOTAL			71,867
	CONTRACTOR TOTAL				83,636
	GENERAL HOSPITAL CORPORATION		NAVY	RDTE/Other Defense-Advanced Development	2,000
	GENERAL MOTORS CORPORATION		USAF	RDTE/Other Defense-Advanced Development	200
	GENERAL RESEARCH CORPORATION		ARMY	RDTE/Other Defense-Advanced Development	3,528
			USAF	RDTE/Other Defense-Advanced Development	387
		STATE TOTAL			3,915
		Virginia	NAVY	RDTE/Other Defense-Advanced Development	110
					4,025
	CONTRACTOR TOTAL				72
	GENERAL SIGNAL CORPORATION		NAVY	RDTE/Other Defense-Advanced Development	600
	GEODYNAMICS CORPORATION		ARMY	RDTE/Other Defense-Advanced Development	200
	GEORGIA INSTITUTE TECHNOLOGY		NAVY	RDTE/Other Defense-Advanced Development	167
	GEORGIA TECH RESEARCH CORP		ARMY	RDTE/Other Defense-Advanced Development	308
			USAF	RDTE/Other Defense-Advanced Development	475
		STATE TOTAL			

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AD93 (CONTINUED)							
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		\$ 6,490 649	
	STATE TOTAL					7,139	
	GRUMMAN DATA SYSTEMS CORP	New York	USAF	RDTE/Other Defense-Advanced Development		697	
	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Other Defense-Advanced Development		300	
		Colorado	USAF	RDTE/Other Defense-Advanced Development		26	
		Maryland	USAF	RDTE/Other Defense-Advanced Development		270	
		Mass	USAF	RDTE/Other Defense-Advanced Development		117	
	CONTRACTOR TOTAL					713	
	GTE LABORATORIES INC	Mass	USAF	RDTE/Other Defense-Advanced Development		165	
	HAMPSHIRE INSTRUMENTS INC	Mass	NAVY	RDTE/Other Defense-Advanced Development		966	
	HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Advanced Development		1,543	
	HARRIS GROUP THE INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		510	
	HAZELTINE CORPORATION	New York	USAF	RDTE/Other Defense-Advanced Development		40	
	HOECHST CELANESE CORPORATION	New Jersey	USAF	RDTE/Other Defense-Advanced Development		250	
	HONEYWELL INC	Minnesota	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		1,463 944	
	STATE TOTAL					2,407	
				Washington	ARMY	RDTE/Other Defense-Advanced Development	148
	CONTRACTOR TOTAL						2,555
	HORRIGAN ANALYTICS	Illinois	NAVY	RDTE/Other Defense-Advanced Development		245	
	HOWARD UNIVERSITY	D.C.	ARMY	RDTE/Other Defense-Advanced Development		77	
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		350 120 4,223	
	STATE TOTAL						4,693
	HUGHES ASSOCIATES INC			D.C.	NAVY	RDTE/Other Defense-Advanced Development	2,849

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
	HYPRES INC	New York	NAVY	RDTE/Other Defense-Advanced Development	\$ 1,366
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Defense-Advanced Development	26
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Defense-Advanced Development	1,000
			USAF	RDTE/Other Defense-Advanced Development	75
	STATE TOTAL				1,075
		New York	USAF	RDTE/Other Defense-Advanced Development	60
		Ohio	USAF	RDTE/Other Defense-Advanced Development	100
	CONTRACTOR TOTAL				1,235
	INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Defense-Advanced Development	1,336
	INTEC INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Advanced Development	38
	INTEGRATED APPLIED PHYSICS	California	NAVY	RDTE/Other Defense-Advanced Development	135
	INTERMAGNETICS GENERAL CORP	New York	ARMY	RDTE/Other Defense-Advanced Development	150
	INTERMETRICS INC	Mass	USAF	RDTE/Other Defense-Advanced Development	1,680
		Ohio	USAF	RDTE/Other Defense-Advanced Development	431
		Penn	NAVY	RDTE/Other Defense-Advanced Development	393
	CONTRACTOR TOTAL				2,504
	ISOTHERMAL SYSTEMS RESEARCH	Kentucky	USAF	RDTE/Other Defense-Advanced Development	64
	ISRAEL AIRCRAFT INDUSTRIES LTD	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	49,818
	ISREALI MINISTRY OF DEFENSE	ISRAEL	ARMY	RDTE/Other Defense-Advanced Development	410
	JAMIESON SCIENCE & ENGINEERING	Maryland	ARMY	RDTE/Other Defense-Advanced Development	833
	JASON ASSOCIATES CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	220
	JAYCOR	California	NAVY	RDTE/Other Defense-Advanced Development	218
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Defense-Advanced Development	88,838
	KAISER OPTICAL SYSTEMS INC	Michigan	USAF	RDTE/Other Defense-Advanced Development	75

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Defense-Advanced Development	\$	1,002
KAPOS ASSOCIATES INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		126
KESTREL INSTITUTE	California	USAF	RDTE/Other Defense-Advanced Development		265
KNOWLEDGE SYSTEMS CONCEPTS	New York	USAF	RDTE/Other Defense-Advanced Development		428
KOLLMORGEN CORPORATION	Mass	ARMY	RDTE/Other Defense-Advanced Development		3,948
KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Advanced Development		85
LANGUAGE SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development		148
LICA SYSTEMS INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development		531
LIGHTNING DEVELOPMENT CORP	California	ARMY	RDTE/Other Defense-Advanced Development		26
LINTEL TECHNOLOGY INC	New York	NAVY	RDTE/Other Defense-Advanced Development		50
LITTON ITEK OPTICAL SYSTEMS	Mass	USAF	RDTE/Other Defense-Advanced Development		154
LITTON SYSTEMS INC	Mass	USAF	RDTE/Other Defense-Advanced Development		1,134
LOCKHEED TECHNICAL SERVICES CO	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development Development Development		5,000 135 2,419
		STATE TOTAL			7,554
CONTRACTOR TOTAL	Texas	USAF	RDTE/Other Defense-Advanced Development		399
LOGICON INC	Ohio	USAF	RDTE/Other Defense-Advanced Development		7,953
LORAL CORPORATION	Arizona	USAF	RDTE/Other Defense-Advanced Development		3,392
	California	ARMY	RDTE/Other Defense-Advanced Development		972
	Ohio	ARMY	RDTE/Other Defense-Advanced Development		75
					7,552
CONTRACTOR TOTAL					8,599
LOUISIANA STATE UNIV SYSTEM	Louisiana	ARMY	RDTE/Other Defense-Advanced Development		100
LTV AEROSPACE & DEF CO	Texas	ARMY	RDTE/Other Defense-Advanced Development		64,787

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AD93 (CONTINUED)					
	M R J INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	1,221
	M/A COM INC	Mass	USAF	RDTE/Other Defense-Advanced Development	392
	MAINSTREAM ENGINEERING CO INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	300
	MAR INCORPORATED	Maryland	NAVY	RDTE/Other Defense-Advanced Development	1,800
	MARINE ACOUSTICS	Mass	NAVY	RDTE/Other Defense-Advanced Development	49
	MARINE IMAGING SYSTEMS INC	Mass	ARMY	RDTE/Other Defense-Advanced Development	211
	MARINE SPECIALTY CORP	Arkansas	NAVY	RDTE/Other Defense-Advanced Development	100
	MARQUARDT COMPANY THE	California	USAF	RDTE/Other Defense-Advanced Development	1,100
	MARTIN MARIETTA CORPORATION	Colorado	ARMY	RDTE/Other Defense-Advanced Development	147,693
			NAVY	RDTE/Other Defense-Advanced Development	168
			USAF	RDTE/Other Defense-Advanced Development	753
	STATE TOTAL				148,614
		Florida	USAF	RDTE/Other Defense-Advanced Development	299
		Maryland	ARMY	RDTE/Other Defense-Advanced Development	3,105
			USAF	RDTE/Other Defense-Advanced Development	719
	STATE TOTAL				3,824
	CONTRACTOR TOTAL				152,737
	MASSACHSTTS INST OF TECHNOLOGY	Mass	NAVY	RDTE/Other Defense-Advanced Development	188
	MAXDEM INC	California	NAVY	RDTE/Other Defense-Advanced Development	49
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development	4,986
		Colorado	ARMY	RDTE/Other Defense-Advanced Development	35,953
		Missouri	ARMY	RDTE/Other Defense-Advanced Development	1,200
			USAF	RDTE/Other Defense-Advanced Development	3,128
	STATE TOTAL				4,328
	CONTRACTOR TOTAL				45,267
	MECHANICAL TECHNOLOGY INC	New York	ARMY	RDTE/Other Defense-Advanced Development	397

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AD93 (CONTINUED)					
	MEHARRY MEDICAL COLLEGE	Tennessee	ARMY	RDTE/Other Defense-Advanced Development	84
	MENTOR TECHNOLOGIES INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	200
	MERIX CORPORATION	Mass	NAVY	RDTE/Other Defense-Advanced Development	50
	MESSERSCHMITT BOELKOW BLOHM	GERMANY, F	ARMY	RDTE/Other Defense-Advanced Development	7,794
	MICROCIRC ASSOCIATES	California	NAVY	RDTE/Other Defense-Advanced Development	50
	MICROELECTRONICS	Texas	NAVY	RDTE/Other Defense-Advanced Development	100
	MIDWEST BIOLASER INSTITUTE	Illinois	NAVY	RDTE/Other Defense-Advanced Development	549
	MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Other Defense-Advanced Development	41
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Other Defense-Advanced Development	150
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	70
			NAVY	RDTE/Other Defense-Advanced Development	125
	STATE TOTAL				195
	CONTRACTOR TOTAL				62
		New Mexico	NAVY	RDTE/Other Defense-Advanced Development	257
	MITSUBISHI HEAVY INDUSTRIES LT	JAPAN	ARMY	RDTE/Other Defense-Advanced Development	2,000
	NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other Defense-Advanced Development	336
	NATIONAL AERONAUTICS SPC ADMIN	Alabama	USAF	RDTE/Other Defense-Advanced Development	120
	NEW ENGLAND DEACONESS HOSP CO	Mass	NAVY	RDTE/Other Defense-Advanced Development	235
	NEWPORT NEWS SHPBUILDING DRYDOCK	Virginia	ARMY	RDTE/Other Defense-Advanced Development	562
	NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Defense-Advanced Development	16,198
			USAF	RDTE/Other Defense-Advanced Development	124
	STATE TOTAL				16,322
	CONTRACTOR TOTAL				32
		New Mexico	USAF	RDTE/Other Defense-Advanced Development	16,354
	NIELSEN ENGINEERING & RES	California	ARMY	RDTE/Other Defense-Advanced Development	729

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AD93 (CONTINUED)						
			NAVY	RDTE/Other Defense-Advanced Development	\$	59
		STATE TOTAL				788
	NORDAM	Oklahoma	ARMY	RDTE/Other Defense-Advanced Development		298
	NORTH CAROLINA STATE UNIV	N Carolina	NAVY	RDTE/Other Defense-Advanced Development		1-
	NORTHROP CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development		1,079
		Illinois	NAVY	RDTE/Other Defense-Advanced Development		45
						1,124
	CONTRACTOR TOTAL					2,145
	NYSERNET INC	New York	USAF	RDTE/Other Defense-Advanced Development		329
	OCEAN REMOTE SENSING & ENGRG	California	NAVY	RDTE/Other Defense-Advanced Development		564
	ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Defense-Advanced Development		272
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Other Defense-Advanced Development		2,664
	ORLANDO TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Advanced Development		55
	ORTEL CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development		34
	PACIFIC SIERRA RESEARCH CORP	California	ARMY NAVY	RDTE/Other Defense-Advanced Development		394
		STATE TOTAL				428
	PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other Defense-Advanced Development		434
		Conn	USAF	RDTE/Other Defense-Advanced Development		99
		Maryland	USAF	RDTE/Other Defense-Advanced Development		220
		Nebraska	USAF	RDTE/Other Defense-Advanced Development		437
		New York	USAF	RDTE/Other Defense-Advanced Development		3,455
						4,645
	CONTRACTOR TOTAL					49
	PARASOFT	California	NAVY	RDTE/Other Defense-Advanced Development		1,045
	PARKER KINETIC DESIGN INC	Texas	ARMY	RDTE/Other Defense-Advanced Development		2,257
	PARSONS RALPH M COMPANY THE	Arkansas	ARMY	RDTE/Other Defense-Advanced Development		

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD93 (CONTINUED)					
CONTRACTOR TOTAL					\$
PDA ENGINEERING		California	ARMY	RDTE/Other Defense-Advanced Development	4,808
PENNSYLVANIA STATE UNIV INC		New Mexico	USAF	RDTE/Other Defense-Advanced Development	7,065
PERKIN ELMER CORPORATION		Penn	NAVY	RDTE/Other Defense-Advanced Development	66
PHYSICAL DYNAMICS INC		Conn	USAF	RDTE/Other Defense-Advanced Development	43-
PHYSICAL OPTICS CORPORATION		Virginia	ARMY	RDTE/Other Defense-Advanced Development	370
PLANNING RESEARCH CORPORATION		California	USAF	RDTE/Other Defense-Advanced Development	129
PLANNING SYSTEMS INCORPORATED		Virginia	USAF	RDTE/Other Defense-Advanced Development	75
POLAROID CORPORATION		Mass	NAVY	RDTE/Other Defense-Advanced Development	415
PROCEDYNE CORP		New Jersey	USAF	RDTE/Other Defense-Advanced Development	2,269
PURDUE UNIVERSITY		Indiana	NAVY	RDTE/Other Defense-Advanced Development	167
Q DOT INC		Colorado	NAVY	RDTE/Other Defense-Advanced Development	242
R & D ASSOCIATES		California	ARMY	RDTE/Other Defense-Advanced Development	29
			NAVY	RDTE/Other Defense-Advanced Development	50
			NAVY	RDTE/Other Defense-Advanced Development	860
			NAVY	RDTE/Other Defense-Advanced Development	1,628
			NAVY	RDTE/Other Defense-Advanced Development	2,488
			NAVY	RDTE/Other Defense-Advanced Development	5,802
R J O ENTERPRISES INC		Maryland	ARMY	RDTE/Other Defense-Advanced Development	128
RASOR ASSOCIATES INC		California	USAF	RDTE/Other Defense-Advanced Development	849
RAVEN INC		Virginia	NAVY	RDTE/Other Defense-Advanced Development	6,965
RAYTHEON COMPANY		Mass	ARMY	RDTE/Other Defense-Advanced Development	3,400
			USAF	RDTE/Other Defense-Advanced Development	10,365
			USAF	RDTE/Other Defense-Advanced Development	50
RESEARCH OPPORTUNITIES INC		California	NAVY	RDTE/Other Defense-Advanced Development	90
RESEARCH TRIANGLE INSTITUTE		N Carolina	NAVY	RDTE/Other Defense-Advanced Development	217
			USAF	RDTE/Other Defense-Advanced Development	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

		STATE TOTAL			\$	307
RIVERSIDE RESEARCH INSTITUTE	New York	ARMY	RDTE/Other	Defense-Advanced Development		8,218
ROCHESTER PHOTONICS CORP	New York	USAF	RDTE/Other	Defense-Advanced Development		50
ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other	Defense-Advanced Development		7,784
		NAVY	RDTE/Other	Defense-Advanced Development		298
		USAF	RDTE/Other	Defense-Advanced Development		2,950
	STATE TOTAL					11,032
	Georgia	NAVY	RDTE/Other	Defense-Advanced Development		1,319
	STATE TOTAL					12,351
CONTRACTOR TOTAL						977
ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other	Defense-Advanced Development		445
ROME RESEARCH CORP	New York	USAF	RDTE/Other	Defense-Advanced Development		45
ROTHE DEVELOPMENTS INC	Texas	USAF	RDTE/Other	Defense-Advanced Development		214
S T SYSTEMS CORPORATION	Maryland	NAVY	RDTE/Other	Defense-Advanced Development		26
SACLANT ASW RESEARCH CENTER	ITALY	NAVY	RDTE/Other	Defense-Advanced Development		50
SANDIA CORPORATION	New Mexico	NAVY	RDTE/Other	Defense-Advanced Development		49
SATCON TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Other	Defense-Advanced Development		21,238
SCHAFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other	Defense-Advanced Development		150
	STATE TOTAL					21,388
	Virginia	NAVY	RDTE/Other	Defense-Advanced Development		1,225
	STATE TOTAL					22,613
CONTRACTOR TOTAL						314
SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Other	Defense-Advanced Development		993
SCIENCE APPLICATIONS INTL CORP	Alabama	ARMY	RDTE/Other	Defense-Advanced Development		2,452
	Arizona	ARMY	RDTE/Other	Defense-Advanced Development		5,957
	California	ARMY	RDTE/Other	Defense-Advanced Development		

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AD93 (CONTINUED)

			NAVY	RDTE/Other Defense-Advanced Development		\$ 1,297
			USAF	RDTE/Other Defense-Advanced Development		3,830
		STATE TOTAL				11,084
		Ohio	USAF	RDTE/Other Defense-Advanced Development		1,312
		Virginia	ARMY	RDTE/Other Defense-Advanced Development		695
			NAVY	RDTE/Other Defense-Advanced Development		1,090
		STATE TOTAL				1,785
						17,626
		Mass	ARMY	RDTE/Other Defense-Advanced Development		1,537
			NAVY	RDTE/Other Defense-Advanced Development		429
		STATE TOTAL				1,966
		Oregon	NAVY	RDTE/Other Defense-Advanced Development		100
		Virginia	ARMY	RDTE/Other Defense-Advanced Development		1,221
		Minnesota	USAF	RDTE/Other Defense-Advanced Development		200
		Virginia	USAF	RDTE/Other Defense-Advanced Development		49
		Virginia	USAF	RDTE/Other Defense-Advanced Development		49
		Mass	NAVY	RDTE/Other Defense-Advanced Development		132
		Florida	USAF	RDTE/Other Defense-Advanced Development		446
		ISRAEL	ARMY	RDTE/Other Defense-Advanced Development		1,173
		Florida	USAF	RDTE/Other Defense-Advanced Development		121
		Texas	ARMY	RDTE/Other Defense-Advanced Development		40
		California	ARMY	RDTE/Other Defense-Advanced Development		2,245
		California	ARMY	RDTE/Other Defense-Advanced Development		1,339
			USAF	RDTE/Other Defense-Advanced Development		79
		STATE TOTAL				1,418
		Arizona	ARMY	RDTE/Other Defense-Advanced Development		11,100

CONTRACTOR TOTAL

SCIENCE RESEARCH LABORATORY

SEA TECH INC

SECTOR TECHNOLOGY INC

SECURE CMPTING TECHNOLOGY CORP

SEMTAS CORP

SIGNAL ANALYTICS

SIPPICAN INC

SOFTWARE PRDUCTIVITY SOLUTIONS

SOREG NEUCLEAR RESEARCH CENTER

SOUTHEASTN CTR ELECTR ENG ED

SOUTHWEST RESEARCH INSTITUTE

SPACE APPLICATIONS CORPORATION

SPACE COMPUTER CORP

SPACE DATA CORPORATION

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-R&D DESCRIPTION-

ST/CNTRY DEPT

AD93 (CONTINUED)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
SPACE POWER INCORPORATED	California	NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		233 125
SPARTA INC	Alabama	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		358 95 65
	STATE TOTAL				160
	California	NAVY	RDTE/Other Defense-Advanced Development		97
CONTRACTOR TOTAL					257
SPECTRA DIODE LABORATORIES	California	USAF	RDTE/Other Defense-Advanced Development		1,540
SPECTRON DEVELOPMENT LABS	California	NAVY	RDTE/Other Defense-Advanced Development		54
SRI INTERNATIONAL	California	ARMY NAVY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		907 555 584
	STATE TOTAL				2,046
SRS TECHNOLOGIES	California	ARMY	RDTE/Other Defense-Advanced Development		4,391
STANFORD TELECOMMUNICATIONS	Virginia	USAF	RDTE/Other Defense-Advanced Development		433
STANFORD UNIVERSITY	California	NAVY	RDTE/Other Defense-Advanced Development		401
STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Advanced Development		111
STONE & WEBSTER ENGRG CORP	D.C.	ARMY	RDTE/Other Defense-Advanced Development		988
SUN MICROSYSTEMS INC	Virginia	NAVY	RDTE/Other Defense-Advanced Development		63
SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Defense-Advanced Development		57
SYNECTICS CORP	Virginia	USAF	RDTE/Other Defense-Advanced Development		263
SYRACUSE UNIVERSITY	New York	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development		83 120
	STATE TOTAL				203
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Advanced Development		90

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93 (CONTINUED)					
	SYSTEMS & PROCESSES ENGRG CORP	Texas	NAVY	RDTE/Other Defense-Advanced Development	230
	SYSTEMS ANALYSIS & INTEGRATION	California	NAVY	RDTE/Other Defense-Advanced Development	712
	SYSTEMS ENGRG & MGT ASSOC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	2,473
	SYSTEMS EXPLORATION INC	California	USAF	RDTE/Other Defense-Advanced Development	39
		Ohio	USAF	RDTE/Other Defense-Advanced Development	733
					772
	CONTRACTOR TOTAL				
	SYSTEMS INTEGRATED	California	NAVY	RDTE/Other Defense-Advanced Development	80
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Advanced Development	1,552
	TECH INTERNATIONAL INC	Colorado	NAVY	RDTE/Other Defense-Advanced Development	299
	TECHNICAL ENGRSVCESX D	New Jersey	USAF	RDTE/Other Defense-Advanced Development	52
	TECHNOLOGY ASSSSMENT TRANSF INC	Maryland	ARMY	RDTE/Other Defense-Advanced Development	763
	TEKTRONIX INC	Washington	ARMY	RDTE/Other Defense-Advanced Development	63
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Other Defense-Advanced Development	33
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	2,252 225
			STATE TOTAL		2,477
	THE ANALYTIC SCIENCE CORP	Mass	ARMY USAF	RDTE/Other Defense-Advanced Development RDTE/Other Defense-Advanced Development	25,426 2,965
			STATE TOTAL		28,391
	THERMACORE INC	Penn	USAF	RDTE/Other Defense-Advanced Development	74
	TINSLEY LABORATORIES INC	California	USAF	RDTE/Other Defense-Advanced Development	1,175
	TITAN CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	391
	TITAN SYSTEMS INC	California	USAF	RDTE/Other Defense-Advanced Development	51
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Defense-Advanced Development	99
	TRACOR FLIGHT SYSTEMS INC	California	ARMY	RDTE/Other Defense-Advanced Development	158

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

TRW INC	California	ARMY	RDTE/Other	Defense-Advanced Development	\$ 2,634
		NAVY	RDTE/Other	Defense-Advanced Development	4,115
		USAF	RDTE/Other	Defense-Advanced Development	2,144
	STATE TOTAL				8,893
	Colorado	USAF	RDTE/Other	Defense-Advanced Development	13,116
					22,009
CONTRACTOR TOTAL					
TSI INCORPORATED	Minnesota	NAVY	RDTE/Other	Defense-Advanced Development	28
TUSKEGEE UNIVERSITY	Alabama	ARMY	RDTE/Other	Defense-Advanced Development	73
U F A INC	Mass	USAF	RDTE/Other	Defense-Advanced Development	33
U S FOOD & DRUG ADMINISTRATION	Maryland	NAVY	RDTE/Other	Defense-Advanced Development	65
UNISYS CORPORATION	Minnesota	USAF	RDTE/Other	Defense-Advanced Development	4,099
UNITED KINGDOM MINISTRY OF DEF	UNITED KIN	ARMY	RDTE/Other	Defense-Advanced Development	3,232
UNITED STATES DEPT ENERGY	California	NAVY	RDTE/Other	Defense-Advanced Development	165
	Illinois	NAVY	RDTE/Other	Defense-Advanced Development	145
					310
CONTRACTOR TOTAL					122
UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other	Defense-Advanced Development	
	Maryland	NAVY	RDTE/Other	Defense-Advanced Development	1,000
					1,122
CONTRACTOR TOTAL					159
UNITED TECHNOLOGIES OPT SYSTEMS	Florida	USAF	RDTE/Other	Defense-Advanced Development	
UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other	Defense-Advanced Development	99
		USAF	RDTE/Other	Defense-Advanced Development	600
	STATE TOTAL				699
	Florida	NAVY	RDTE/Other	Defense-Advanced Development	38
		USAF	RDTE/Other	Defense-Advanced Development	309
	STATE TOTAL				347
CONTRACTOR TOTAL					1,046

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD93	(CONTINUED)				
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Advanced Development	674
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Advanced Development	2,274
	UNIVERSITY OF DAYTON INC	Arizona	USAF	RDTE/Other Defense-Advanced Development	1,363
		Ohio	USAF	RDTE/Other Defense-Advanced Development	1,285
	CONTRACTOR TOTAL				2,648
	UNIVERSITY OF FLORIDA	Florida	ARMY	RDTE/Other Defense-Advanced Development	265
			NAVY	RDTE/Other Defense-Advanced Development	40-
			USAF	RDTE/Other Defense-Advanced Development	900
	STATE TOTAL				1,125
	UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Other Defense-Advanced Development	52-
	UNIVERSITY OF KENTUCKY	Kentucky	USAF	RDTE/Other Defense-Advanced Development	224
	UNIVERSITY OF MARYLAND	Maryland	NAVY	RDTE/Other Defense-Advanced Development	400
	UNIVERSITY OF MIAMI INC	Florida	NAVY	RDTE/Other Defense-Advanced Development	35
	UNIVERSITY OF MINNESOTA	Minnesota	NAVY	RDTE/Other Defense-Advanced Development	40-
	UNIVERSITY OF NC AT CHARLOTTE	N Carolina	USAF	RDTE/Other Defense-Advanced Development	36
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Defense-Advanced Development	30
			NAVY	RDTE/Other Defense-Advanced Development	108
	STATE TOTAL				138
	UNIVERSITY OF SOUTH FLORIDA	Florida	NAVY	RDTE/Other Defense-Advanced Development	211
	UNIVERSITY OF STHERN CLFORNIA	California	NAVY	RDTE/Other Defense-Advanced Development	202
			USAF	RDTE/Other Defense-Advanced Development	732
	STATE TOTAL				934
	UNIVERSITY OF TEXAS SYSTEM	Texas	NAVY	RDTE/Other Defense-Advanced Development	200
	UNIVERSITY OF WSCONSIN SYSTEM	Wisconsin	NAVY	RDTE/Other Defense-Advanced Development	30
	URS CORPORATION	California	ARMY	RDTE/Other Defense-Advanced Development	292
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Defense-Advanced Development	32,056
	VANGUARD RESEARCH INC	Virginia	ARMY	RDTE/Other Defense-Advanced Development	310

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD93 (CONTINUED)

VARIAN ASSOCIATES INC	California	USAF	RDTE/Other	Defense-Advanced Development	\$ 623
VEDA INCORPORATED	Ohio	USAF	RDTE/Other	Defense-Advanced Development	1,040
VER VAL ENTERPRISES INC	Florida	ARMY	RDTE/Other	Defense-Advanced Development	188
VICTORIA INTERNATIONAL LTD	Virginia	NAVY	RDTE/Other	Defense-Advanced Development	1,869
VIRGINIA STATE UNIVERSITY	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	95
VITRO CORPORATION	Maryland	NAVY	RDTE/Other	Defense-Advanced Development	62
WACKENHUT ADV TECH CORP	Virginia	ARMY	RDTE/Other	Defense-Advanced Development	354
WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other	Defense-Advanced Development	140
WESTERN RESEARCH CORPORATION	California	NAVY	RDTE/Other	Defense-Advanced Development	656
WESTINGHOUSE ELECTRIC CORP	Maryland	ARMY USAF	RDTE/Other	Defense-Advanced Development	600 29
STATE TOTAL					629
CONTRACTOR TOTAL					377
XERAD INC	Penn	USAF	RDTE/Other	Defense-Advanced Development	1,006
	California	ARMY USAF	RDTE/Other	Defense-Advanced Development	1,184 598
STATE TOTAL					1,782
XEROX CORPORATION	Mass	USAF	RDTE/Other	Defense-Advanced Development	233
R&D TOTAL					1,017,735
AD94 A E C DESIGN	Virginia	NAVY	RDTE/Other	Defense-Engineering Development	367
ADVANCED DECISION SYSTEMS	California	USAF	RDTE/Other	Defense-Engineering Development	616
ADVANCED TECHNOLOGY INC	Virginia	NAVY	RDTE/Other	Defense-Engineering Development	147
AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other	Defense-Engineering Development	52
ALAR PRODUCTS INC	Ohio	USAF	RDTE/Other	Defense-Engineering Development	111
ALLIED SIGNAL AEROSPACE CO	California	USAF	RDTE/Other	Defense-Engineering Development	550

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AD94 (CONTINUED)

ANALYTICAL SYSTEMS ENGRG CORP	California	USAF	RDTE/Other	Defense-Engineering Development	\$ 480
	Florida	USAF	RDTE/Other	Defense-Engineering Development	946
	Maryland	USAF	RDTE/Other	Defense-Engineering Development	290
	New York	USAF	RDTE/Other	Defense-Engineering Development	58
	Ohio	USAF	RDTE/Other	Defense-Engineering Development	50
CONTRACTOR TOTAL					1,824
ANALYTICS INCORPORATED	Penn	ARMY	RDTE/Other	Defense-Engineering Development	30
ANTHROPOLOGY RESEARCH PROJECT	Ohio	USAF	RDTE/Other	Defense-Engineering Development	129
ARO CORPORATION	New York	USAF	RDTE/Other	Defense-Engineering Development	641
BALL CORPORATION	California	USAF	RDTE/Other	Defense-Engineering Development	2,789
BETAC CORPORATION	Virginia	USAF	RDTE/Other	Defense-Engineering Development	55
BICOASTAL CORPORATION	Arkansas	USAF	RDTE/Other	Defense-Engineering Development	618
BIO IMAGING RESEARCH INC	Illinois	ARMY	RDTE/Other	Defense-Engineering Development	58
BOEING COMPANY THE	Washington	USAF	RDTE/Other	Defense-Engineering Development	8,046
BOEING ELECTRONICS INC	Washington	NAVY	RDTE/Other	Defense-Engineering Development	110
BROWN DAYTON T INC	New York	NAVY	RDTE/Other	Defense-Engineering Development	40
BUNKER RAMO ELTRA CORPORATION	California	USAF	RDTE/Other	Defense-Engineering Development	564
C A E INDUSTRIES LTD	Texas	USAF	RDTE/Other	Defense-Engineering Development	855
CACI INC	Texas	USAF	RDTE/Other	Defense-Engineering Development	95
CALSPAN CORPORATION	New York	USAF	RDTE/Other	Defense-Engineering Development	280
CANADIAN COMMERCIAL CORPORATI	CANADA	NAVY	RDTE/Other	Defense-Engineering Development	120
CHAMBERLAIN MANUFACTURING CORP	Illinois	NAVY	RDTE/Other	Defense-Engineering Development	66
	Maryland	ARMY	RDTE/Other	Defense-Engineering Development	4,598
CONTRACTOR TOTAL					4,664

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	CLAMSHELL BUILDINGS INC	California	ARMY	RDTE/Other Defense-Engineering Development	99
	COLSA INC	Alabama	ARMY	RDTE/Other Defense-Engineering Development	440
	COMPUTER SCIENCE INNOVATIONS	Florida	USAF	RDTE/Other Defense-Engineering Development	150
	CONTEL FEDERAL SYSTEMS INC	California	USAF	RDTE/Other Defense-Engineering Development	444
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Other Defense-Engineering Development	289
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Engineering Development	395
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Defense-Engineering Development	590
	E SYSTEMS INC	Texas	USAF	RDTE/Other Defense-Engineering Development	4,991
	ECONOMICS TECHNOLOGY ASSOC	California	USAF	RDTE/Other Defense-Engineering Development	1,050
	ELECTRONIC ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Defense-Engineering Development	915
	ENVIRNMNTAL TECHNOLOGIES GROUP	Maryland	ARMY	RDTE/Other Defense-Engineering Development	2,858
	ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Other Defense-Engineering Development	175
	FAGIN SAMUEL L ASSOC	Penn	NAVY	RDTE/Other Defense-Engineering Development	50
	GAERTNER W W RESEARCH INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	292
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Other Defense-Engineering Development	19,255
	GENERAL DYNAMICS WESTNGHSE JV	California	NAVY	RDTE/Other Defense-Engineering Development	26,500
	GENERAL ELECTRIC COMPANY	New Jersey	NAVY	RDTE/Other Defense-Engineering Development	54
		New York	NAVY	RDTE/Other Defense-Engineering Development	191
	CONTRACTOR TOTAL				245
	GENERAL RESEARCH CORPORATION	Alabama	USAF	RDTE/Other Defense-Engineering Development	323
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY USAF	RDTE/Other Defense-Engineering Development RDTE/Other Defense-Engineering Development	142 96
		STATE TOTAL			238
	GNOSTECH INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	978
	HANSON R A CO INC	Washington	USAF	RDTE/Other Defense-Engineering Development	236-

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	HERCULES INCORPORATED	Florida	NAVY	RDTE/Other Defense-Engineering Development	479
	HONEYWELL INC	Minnesota	ARMY USAF	RDTE/Other Defense-Engineering Development RDTE/Other Defense-Engineering Development	1,405 499
	STATE TOTAL				1,904
	HOPKINS SOFTWARE	California	NAVY	RDTE/Other Defense-Engineering Development	49
	HRB SYSTEMS INC	Penn	USAF	RDTE/Other Defense-Engineering Development	430
	HUGHES AIRCRAFT & RAYTHEON JV	California	NAVY	RDTE/Other Defense-Engineering Development	31,500
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Defense-Engineering Development	150
	ILLINOIS TOOL WORKS INC	Illinois	USAF	RDTE/Other Defense-Engineering Development	833
	INGERSOLL RAND COMPANY	N Carolina	USAF	RDTE/Other Defense-Engineering Development	40
	INTERMETRICS INC	Ohio	USAF	RDTE/Other Defense-Engineering Development	542
	ISA ASSOCIATES INC	D.C.	NAVY	RDTE/Other Defense-Engineering Development	188
	JAYCOR	Ohio	USAF	RDTE/Other Defense-Engineering Development	2,367
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Engineering Development	303
	KRUG INTERNATIONAL CORPORATION	Texas	USAF	RDTE/Other Defense-Engineering Development	94
	L J F CORP	New Jersey	NAVY	RDTE/Other Defense-Engineering Development	47
	LITTON SYSTEMS INC	California	USAF	RDTE/Other Defense-Engineering Development	33
	CONTRACTOR TOTAL				96
	LOCKHEED CORPORATION	California	USAF	RDTE/Other Defense-Engineering Development	129
	LOGICON INC	California	USAF	RDTE/Other Defense-Engineering Development	294
		Ohio	USAF	RDTE/Other Defense-Engineering Development	43
	CONTRACTOR TOTAL				511
	LORAL CORPORATION	New York	NAVY	RDTE/Other Defense-Engineering Development	554
					15,802

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD94 (CONTINUED)					
	MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other Defense-Engineering Development	100
	MANDEX INC	Virginia	NAVY	RDTE/Other Defense-Engineering Development	41
	MARTIN BAKER AIRCRAFT CO LTD	UNITED KIN	NAVY	RDTE/Other Defense-Engineering Development	185
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Other Defense-Engineering Development	434
		Florida	NAVY	RDTE/Other Defense-Engineering Development	1,085
		Maryland	USAF	RDTE/Other Defense-Engineering Development	200
		Nebraska	USAF	RDTE/Other Defense-Engineering Development	199
		New York	USAF	RDTE/Other Defense-Engineering Development	170
		Virginia	USAF	RDTE/Other Defense-Engineering Development	122
	CONTRACTOR TOTAL				2,210
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Defense-Engineering Development	128
	METRON INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	585
	MICREL INCORPORATED	California	ARMY	RDTE/Other Defense-Engineering Development	54
	MILITARY VEHCLS OPTN GM CORP	Michigan	ARMY	RDTE/Other Defense-Engineering Development	133
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Engineering Development	100-
		D.C.	NAVY	RDTE/Other Defense-Engineering Development	252
	CONTRACTOR TOTAL				152
	MODERN TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Engineering Development	2,046
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Other Defense-Engineering Development	90
	OPTECH LAB	California	ARMY	RDTE/Other Defense-Engineering Development	50
	OPTICS ONE INC	California	NAVY	RDTE/Other Defense-Engineering Development	47
	OSHKOSH TRUCK CORPORATION	Wisconsin	ARMY	RDTE/Other Defense-Engineering Development	31,047
	PACCAR INC	Washington	ARMY	RDTE/Other Defense-Engineering Development	585
	PLANNING SYSTEMS INCORPORATED	Virginia	NAVY	RDTE/Other Defense-Engineering Development	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD94 (CONTINUED)	RAYTHEON COMPANY	Mass	USAF	RDTE/Other Defense-Engineering Development	\$ 56
	ROCKWELL INTERNATIONAL CORP	California	ARMY	RDTE/Other Defense-Engineering Development	158
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Defense-Engineering Development	300
	S C S TELECOM INC	New York	NAVY	RDTE/Other Defense-Engineering Development	50
	SCIENCE APPLICATIONS INTL CORP	Ohio	USAF	RDTE/Other Defense-Engineering Development	696
	SEPARATION SYSTEMS TECHNOLOGY	California	ARMY	RDTE/Other Defense-Engineering Development	150
	SOCIETE GENERALE DES TAPIS SA	GERMANY, F	NAVY	RDTE/Other Defense-Engineering Development	231-
	SOFTTECH INC	Virginia	USAF	RDTE/Other Defense-Engineering Development	7,679
	SOFTWARE TECHNOLOGY INC	Florida	NAVY	RDTE/Other Defense-Engineering Development	1,990
	SOUTHWEST RESEARCH INSTITUTE	Missouri	NAVY	RDTE/Other Defense-Engineering Development	43
		Texas	NAVY	RDTE/Other Defense-Engineering Development	580
			USAF	RDTE/Other Defense-Engineering Development	55
				STATE TOTAL	635
	CONTRACTOR TOTAL				678
	SPRINGBORN LABORATORIES INC	Conn	NAVY	RDTE/Other Defense-Engineering Development	190
	SRI INTERNATIONAL	California	USAF	RDTE/Other Defense-Engineering Development	4,162
	STV ENGINEERS INC	Penn	NAVY	RDTE/Other Defense-Engineering Development	853
	SYNERGISTIC TECHNOLOGY INC	California	ARMY	RDTE/Other Defense-Engineering Development	202
	TECHNION RESEARCH & DEVELOPMEN	ISRAEL	USAF	RDTE/Other Defense-Engineering Development	82
	TENSION MEMBER TECHNOLOGY	California	NAVY	RDTE/Other Defense-Engineering Development	204
	THE ANALYTIC SCIENCE CORP	Florida	USAF	RDTE/Other Defense-Engineering Development	493
	TRW INC	Colorado	USAF	RDTE/Other Defense-Engineering Development	8,815
	UNISYS CORPORATION	New York	USAF	RDTE/Other Defense-Engineering Development	957
		Ohio	USAF	RDTE/Other Defense-Engineering Development	678

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AD94 (CONTINUED)					
	CONTRACTOR TOTAL				
	UNITED TECHNOLOGIES CORP	Conn	NAVY USAF	RDTE/Other Defense-Engineering Development RDTE/Other Defense-Engineering Development	1,635 497 61- 436
	STATE TOTAL				
	Florida	NAVY		RDTE/Other Defense-Engineering Development	9,935 10,371
	Penn	NAVY		RDTE/Other Defense-Engineering Development	58
	XEROX CORPORATION	California	ARMY	RDTE/Other Defense-Engineering Development	2,860
	R&D TOTAL				217,461
AD95	ADVANCED TECHNOLOGY & RESEARCH	California	ARMY	RDTE/Other Defense-Operational Systems Dev	60
	AEROJET	California	USAF	RDTE/Other Defense-Operational Systems Dev	92,485
	ANALYTIC SERVICES INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	25
	ANALYTICAL SYSTEMS ENGRG CORP	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	70
	APPLIED RESEARCH INC	Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	85
	AQUA CHEM INC	Wisconsin	ARMY	RDTE/Other Defense-Operational Systems Dev	1,943
	ARTIFICIAL INTELLIGENCE CORP	Texas	USAF	RDTE/Other Defense-Operational Systems Dev	63
	ASCHKENASY ERNEST INC	New York	USAF	RDTE/Other Defense-Operational Systems Dev	47
	AT&T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Other Defense-Operational Systems Dev	184
	BALL CORPORATION	California	USAF	RDTE/Other Defense-Operational Systems Dev	229
	BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	39
	BDM INTERNATIONAL INC	Virginia	ARMY NAVY	RDTE/Other Defense-Operational Systems Dev RDTE/Other Defense-Operational Systems Dev	50 690
	STATE TOTAL				740
	BECHDON COMPANY INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	50
	BERKELEY RESEARCH ASSOCIATES	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	182

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	BRTRC INC	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	80
	C A E INDUSTRIES LTD	Arkansas	USAF	RDTE/Other Defense-Operational Systems Dev	2,430
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Operational Systems Dev	45
	CAM LOCK UK LIMITED	UNITED KIN	NAVY	RDTE/Other Defense-Operational Systems Dev	329
	CAMPBELL ENGINEERING INC	Alabama	NAVY	RDTE/Other Defense-Operational Systems Dev	399
	CAPE COD RESEARCH INC	Mass	USAF	RDTE/Other Defense-Operational Systems Dev	100
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Defense-Operational Systems Dev	94
	CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev	35
	CLEMSON UNIVERSITY	S Carolina	NAVY	RDTE/Other Defense-Operational Systems Dev	55
	COMPUTER OPTICS INC	N.H.	NAVY	RDTE/Other Defense-Operational Systems Dev	40
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	4,192
	COORS PORCELAIN COMPANY	Colorado	ARMY	RDTE/Other Defense-Operational Systems Dev	189
	CORPORATION OF MERCER UNIV	Georgia	USAF	RDTE/Other Defense-Operational Systems Dev	2,140
	DIGICOMP RESEARCH CORP	New York	USAF	RDTE/Other Defense-Operational Systems Dev	3,024
	EATON CORPORATION	New York	ARMY	RDTE/Other Defense-Operational Systems Dev	41
	EG&G INC	New Mexico	NAVY	RDTE/Other Defense-Operational Systems Dev	80
	ELECTRONICS DEVELOPMENT CORP	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev	56
	ENSCO INC	Florida	USAF	RDTE/Other Defense-Operational Systems Dev	2,490
	ESL INCORPORATED	California	ARMY	RDTE/Other Defense-Operational Systems Dev	15,367
	FAAC INCORPORATED	Michigan	NAVY	RDTE/Other Defense-Operational Systems Dev	1,787
	FAILURE ANALYSIS ASSOCIATES	Washington	ARMY	RDTE/Other Defense-Operational Systems Dev	120
	G R D INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	108
	GALAXY SCIENTIFIC CORP	New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	704
		Penn	NAVY	RDTE/Other Defense-Operational Systems Dev	153

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD95 (CONTINUED)

CONTRACTOR TOTAL					\$
GENERAL APPLIED SCIENCE	New York	USAF	RDTE/Other Defense-Operational Systems Dev		857
GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Other Defense-Operational Systems Dev		871
GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Defense-Operational Systems Dev		499
GORE W L & ASSOCIATES INC	Delaware	NAVY	RDTE/Other Defense-Operational Systems Dev		365
GTE GOVERNMENT SYSTEMS CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev		40
HARRIS CORPORATION	Florida	USAF	RDTE/Other Defense-Operational Systems Dev		284
HEWLETT PACKARD COMPANY	Penn	USAF	RDTE/Other Defense-Operational Systems Dev		200
HUMAN RSRCS RES ORGANIZATION	Virginia	NAVY	RDTE/Other Defense-Operational Systems Dev		269
I NET INC	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev		288
INFORMTION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Defense-Operational Systems Dev		227
		NAVY	RDTE/Other Defense-Operational Systems Dev		49
		USAF	RDTE/Other Defense-Operational Systems Dev		450
	STATE TOTAL				499
INTEC INCORPORATED	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev		322
INTERMETRICS INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		132
INTERSPEC INC	Penn	ARMY	RDTE/Other Defense-Operational Systems Dev		443
KETRON INC	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		630
KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Operational Systems Dev		142
KNOWLEDGE SYSTEMS CONCEPTS	Kansas	USAF	RDTE/Other Defense-Operational Systems Dev		250
	New York	USAF	RDTE/Other Defense-Operational Systems Dev		1,051
	Virginia	USAF	RDTE/Other Defense-Operational Systems Dev		854
CONTRACTOR TOTAL					2,155
LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Other Defense-Operational Systems Dev		438
M/A COM PHI INC	California	NAVY	RDTE/Other Defense-Operational Systems Dev		30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD95 (CONTINUED)

MANAGEMENT CONSULTING & RES	Virginia	NAVY	RDTE/Other	Defense-Operational Systems Dev	\$ 97
MARQUARDT COMPANY THE	California	USAF	RDTE/Other	Defense-Operational Systems Dev	465
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Other	Defense-Operational Systems Dev	498
	Maryland	USAF	RDTE/Other	Defense-Operational Systems Dev	120
CONTRACTOR TOTAL					618
MCDONNELL DOUGLAS INCO INC	Virginia	USAF	RDTE/Other	Defense-Operational Systems Dev	3,153
MODERN TECHNOLOGIES CORP	Ohio	USAF	RDTE/Other	Defense-Operational Systems Dev	58
NATIONAL ACADEMY SCIENCES USA	D.C.	NAVY	RDTE/Other	Defense-Operational Systems Dev	734
NATIONAL SEMICONDUCTOR CORP	California	NAVY	RDTE/Other	Defense-Operational Systems Dev	615
NATIVE AMERICAN SERVICE ASSN	Alabama	ARMY	RDTE/Other	Defense-Operational Systems Dev	1,239
ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other	Defense-Operational Systems Dev	498
PAR TECHNOLOGY CORPORATION	California	USAF	RDTE/Other	Defense-Operational Systems Dev	68
	New York	USAF	RDTE/Other	Defense-Operational Systems Dev	226
CONTRACTOR TOTAL					294
PERSONNEL DCSONS RES INSTITUTE	Minnesota	NAVY	RDTE/Other	Defense-Operational Systems Dev	30
PHYSICS INTERNATIONAL COMPANY	California	ARMY	RDTE/Other	Defense-Operational Systems Dev	176
PLANNING RESEARCH CORPORATION	Hawaii	USAF	RDTE/Other	Defense-Operational Systems Dev	3,253
	Nebraska	USAF	RDTE/Other	Defense-Operational Systems Dev	5,644
CONTRACTOR TOTAL					8,897
QUANTICS INC	Penn	NAVY	RDTE/Other	Defense-Operational Systems Dev	216
QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other	Defense-Operational Systems Dev	280
RAYTHEON COMPANY	Rhode Isld	NAVY	RDTE/Other	Defense-Operational Systems Dev	130
RONSON MANAGEMENT CORP	Virginia	ARMY	RDTE/Other	Defense-Operational Systems Dev	823
ROOFTEX INC	Virginia	ARMY	RDTE/Other	Defense-Operational Systems Dev	118

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD95 (CONTINUED)					
SCIENCE & TECHNOLOGY CORP	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	\$ 590
		California	ARMY USAF	RDTE/Other Defense-Operational Systems Dev RDTE/Other Defense-Operational Systems Dev	124 285
		STATE TOTAL			409
		Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	929
		Virginia	NAVY USAF	RDTE/Other Defense-Operational Systems Dev RDTE/Other Defense-Operational Systems Dev	200 119
		STATE TOTAL			319
					1,657
		CONTRACTOR TOTAL			
		New Jersey	NAVY	RDTE/Other Defense-Operational Systems Dev	85
		Arizona	USAF	RDTE/Other Defense-Operational Systems Dev	150
SIGNAL SCIENCE INC	SIGNAL SCIENCE INC	California	USAF	RDTE/Other Defense-Operational Systems Dev	207
		Mass	USAF	RDTE/Other Defense-Operational Systems Dev	216
		Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	99
		California	ARMY	RDTE/Other Defense-Operational Systems Dev	75
		California	ARMY USAF	RDTE/Other Defense-Operational Systems Dev RDTE/Other Defense-Operational Systems Dev	96 899
		STATE TOTAL			995
		CONTRACTOR TOTAL			
		Mass	USAF	RDTE/Other Defense-Operational Systems Dev	49
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	840
		California	NAVY	RDTE/Other Defense-Operational Systems Dev	485
SYNETICS CORPORATION	SYNETICS CORPORATION	Texas	NAVY	RDTE/Other Defense-Operational Systems Dev	300
		Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	2,347
		California	ARMY	RDTE/Other Defense-Operational Systems Dev	33
		Washington	NAVY	RDTE/Other Defense-Operational Systems Dev	128
		CONTRACTOR TOTAL			
		Mass	USAF	RDTE/Other Defense-Operational Systems Dev	49
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	840
		California	NAVY	RDTE/Other Defense-Operational Systems Dev	485
		Texas	NAVY	RDTE/Other Defense-Operational Systems Dev	300
		Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	2,347
THIOKOL CORPORATION	THIOKOL CORPORATION	California	ARMY	RDTE/Other Defense-Operational Systems Dev	33
		Washington	NAVY	RDTE/Other Defense-Operational Systems Dev	128
		CONTRACTOR TOTAL			
		Mass	USAF	RDTE/Other Defense-Operational Systems Dev	49
		Virginia	ARMY	RDTE/Other Defense-Operational Systems Dev	840
		California	NAVY	RDTE/Other Defense-Operational Systems Dev	485
		Texas	NAVY	RDTE/Other Defense-Operational Systems Dev	300
		Alabama	ARMY	RDTE/Other Defense-Operational Systems Dev	2,347
		California	ARMY	RDTE/Other Defense-Operational Systems Dev	33
		Washington	NAVY	RDTE/Other Defense-Operational Systems Dev	128

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AD95 (CONTINUED)					
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Defense-Operational Systems Dev	35
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Defense-Operational Systems Dev	459
	VITRO CORPORATION	Maryland	NAVY	RDTE/Other Defense-Operational Systems Dev	1,903
	VREULS RESEARCH CORPORATION	California	NAVY	RDTE/Other Defense-Operational Systems Dev	100
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Defense-Operational Systems Dev	864
	R&D TOTAL				168,152
	AD96 A O G SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	179
	ADVANCED DECISION SYSTEMS	Virginia	USAF	RDTE/Other Defense-Management & Support	330
	ADVANCED DESIGN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	466
	ADVANCED RES & APPLICATIONS	California	USAF	RDTE/Other Defense-Management & Support	94
	ADVANCED TECHNOLOGY MATERIALS	Conn	USAF	RDTE/Other Defense-Management & Support	127
	AERO PLASMA TECHNOLOGIES	California	USAF	RDTE/Other Defense-Management & Support	49
	AERODYNE PRODUCTS CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	287
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Other Defense-Management & Support	543
	AEROSPATIALE	FRANCE	USAF	RDTE/Other Defense-Management & Support	120
	AMERICAN ELECTRONICS INC	Maryland	NAVY	RDTE/Other Defense-Management & Support	220
	ANDRULIS RESEARCH CORP	Maryland	ARMY	RDTE/Other Defense-Management & Support	110
	APTEK INC	Colorado	USAF	RDTE/Other Defense-Management & Support	49
	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Defense-Management & Support	3,389
	ASTRON RESEARCH & ENGINEERING	California	USAF	RDTE/Other Defense-Management & Support	47
	AURORA ASSOCIATES	California	USAF	RDTE/Other Defense-Management & Support	49
	AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Defense-Management & Support	101
	BARRON ASSOCIATES INC	Virginia	USAF	RDTE/Other Defense-Management & Support	150
	BDM INTERNATIONAL INC	Virginia	ARMY	RDTE/Other Defense-Management & Support	335-

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AD96 (CONTINUED)					
		STATE TOTAL			
	BERKELEY RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Defense-Management & Support	67
	BETAC CORPORATION	Texas	NAVY	RDTE/Other Defense-Management & Support	268-
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Defense-Management & Support	582
	BOLT BERANEK & NEWMAN INC	Mass	USAF	RDTE/Other Defense-Management & Support	100
	CALSPAN CORPORATION	New York	USAF	RDTE/Other Defense-Management & Support	290
	CENTURY TECHNOLOGIES INC	Maryland	USAF	RDTE/Other Defense-Management & Support	1,427
	CHARLES RIVER ANALYTICS INC	Mass	NAVY	RDTE/Other Defense-Management & Support	131
	CHI SYSTEMS INC	Penn	USAF	RDTE/Other Defense-Management & Support	31
	CLAMSHILL BUILDINGS INC	California	USAF	RDTE/Other Defense-Management & Support	250
	COCKERHAM JOHN M & ASSOCIATES	Alabama	ARMY	RDTE/Other Defense-Management & Support	250
	COLORAY DISPLAY CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	8,175
	COMPLERE INC	California	ARMY	RDTE/Other Defense-Management & Support	875
	COMPUTER COMMAND CTRL COMPANY	Penn	USAF	RDTE/Other Defense-Management & Support	50
	CONSOLVE INC	Mass	USAF	RDTE/Other Defense-Management & Support	281
	CORDRAY INTERNATIONAL CORP	Colorado	NAVY	RDTE/Other Defense-Management & Support	495
	CREARE INC	N.H.	ARMY	RDTE/Other Defense-Management & Support	200
	CREE RESEARCH INC	N Carolina	USAF	RDTE/Other Defense-Management & Support	489
	CRITES ENTERPRISES	Missouri	USAF	RDTE/Other Defense-Management & Support	349
	CRYSTALLUME	California	USAF	RDTE/Other Defense-Management & Support	374
	CSA ENGINEERING INC	California	USAF	RDTE/Other Defense-Management & Support	133
	DEACON RESEARCH	California	USAF	RDTE/Other Defense-Management & Support	393
	DESILUBE TECHNOLOGY INC	Penn	USAF	RDTE/Other Defense-Management & Support	50
			USAF	RDTE/Other Defense-Management & Support	70
			USAF	RDTE/Other Defense-Management & Support	52

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AD96 (CONTINUED)

DYNA EAST CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support	\$	223
E TEK DYNAMICS INC	California	USAF	RDTE/Other Defense-Management & Support		200
	Florida	USAF	RDTE/Other Defense-Management & Support		75
CONTRACTOR TOTAL					275
EAGLE TECHNOLOGY INC	Florida	USAF	RDTE/Other Defense-Management & Support		267
EIDETICS INTERNATIONAL INC	California	USAF	RDTE/Other Defense-Management & Support		61
ENFITEK INC	Texas	USAF	RDTE/Other Defense-Management & Support		49
ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Defense-Management & Support		350
EXTREL CORPORATION	Penn	USAF	RDTE/Other Defense-Management & Support		50
FALCON MICROSYSTEMS INC	Maryland	ARMY	RDTE/Other Defense-Management & Support		288
FLOW INDUSTRIES INC	Washington	USAF	RDTE/Other Defense-Management & Support		293
FLOWDRILL CORP	Washington	USAF	RDTE/Other Defense-Management & Support		370
FLUID JET ASSOCIATES	Ohio	USAF	RDTE/Other Defense-Management & Support		350
FOSTER MILLER INC	Mass	USAF	RDTE/Other Defense-Management & Support		699
FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support		100
	Ohio	USAF	RDTE/Other Defense-Management & Support		51
CONTRACTOR TOTAL					151
GENERAL ENG & SYS ANALYSIS CO	Maryland	USAF	RDTE/Other Defense-Management & Support		135
GENERAL IMAGING CORP	Florida	USAF	RDTE/Other Defense-Management & Support		385
GEO CENTERS INC	Mass	ARMY	RDTE/Other Defense-Management & Support		226
HOPKINS SOFTWARE	California	NAVY	RDTE/Other Defense-Management & Support		49
HUDSON INSTITUTE INC	Indiana	NAVY	RDTE/Other Defense-Management & Support		6,589
HUMAN RSRCS RES ORGANIZATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		170
I A P RESEARCH INC	Ohio	USAF	RDTE/Other Defense-Management & Support		364

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
	AD96 (CONTINUED)					
	I I T RESEARCH INSTITUTE	Maryland	USAF	RDTE/Other Defense-Management & Support		315
	IMAGING & SENSING TECHNOLOGY	New York	USAF	RDTE/Other Defense-Management & Support		48
	INSTITUTE FOR DEF ANALYSES	Virginia	ARMY	RDTE/Other Defense-Management & Support		60,081
	INTEGRATED PARALLEL TECHNOLOGY	California	USAF	RDTE/Other Defense-Management & Support		495
	INTERMETRICS INC	California	USAF	RDTE/Other Defense-Management & Support		2,568
	INTERSCIENCE INC	New York	USAF	RDTE/Other Defense-Management & Support		52
	INTERSPEC INC	Penn	ARMY	RDTE/Other Defense-Management & Support		121
	ITAC	California	USAF	RDTE/Other Defense-Management & Support		48
	K M S FUSION INC	Michigan	USAF	RDTE/Other Defense-Management & Support		407
	KAHN HARRY J ASSOCIATES INC	Maryland	NAVY	RDTE/Other Defense-Management & Support		219
	KEYSTONE COMPUTER ASSOCIATES	Penn	NAVY	RDTE/Other Defense-Management & Support		60
	KNOWLEDGE BASED SYSTEM	Texas	USAF	RDTE/Other Defense-Management & Support		520
	KSA TECHNICAL	Ohio	USAF	RDTE/Other Defense-Management & Support		407
	LIGHTWAVE ELECTRONICS CORP	California	ARMY	RDTE/Other Defense-Management & Support		200
	LORAL CORPORATION	California	NAVY	RDTE/Other Defense-Management & Support		1,516
	LUBRICATING SPC COMPANY	California	USAF	RDTE/Other Defense-Management & Support		216
	MADEN TECH CONSULTING INC	Virginia	ARMY	RDTE/Other Defense-Management & Support		1,932
	MARK RESOURCES INC	California	USAF	RDTE/Other Defense-Management & Support		49
	MARKO MATERIALS INC	Mass	USAF	RDTE/Other Defense-Management & Support		47
	MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support		33
	MATLS RES & COMPUTER	Arizona	NAVY	RDTE/Other Defense-Management & Support		167
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Other Defense-Management & Support		34
	MDA ENGINEERING	Texas	USAF	RDTE/Other Defense-Management & Support		407
	MERIDIAN CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		148

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AD96 (CONTINUED)					
	METROLASER	California	USAF	RDTE/Other Defense-Management & Support	\$ 50
	MICROSCOPY RESEARCH LABS	New Jersey	NAVY	RDTE/Other Defense-Management & Support	99
	MOLLER INTERNATIONAL	California	USAF	RDTE/Other Defense-Management & Support	487
	NCHIP	California	USAF	RDTE/Other Defense-Management & Support	50
	NEW MEXICO INST OF MIN TECHNLGY	New Mexico	ARMY	RDTE/Other Defense-Management & Support	72
	NIELSEN ENGINEERING & RES	California	NAVY	RDTE/Other Defense-Management & Support	120
		USAF	USAF	RDTE/Other Defense-Management & Support	183
	STATE TOTAL				303
	OPERATIONAL TECHNOLOGIES CORP	Texas	USAF	RDTE/Other Defense-Management & Support	50
	OPTRA INC	Mass	USAF	RDTE/Other Defense-Management & Support	407
	ORTEL CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	474
	PHASEX CORPORATION	Mass	USAF	RDTE/Other Defense-Management & Support	42
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Other Defense-Management & Support	240
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Other Defense-Management & Support	204
	PRC ORI JV	Virginia	ARMY	RDTE/Other Defense-Management & Support	546
	PROGRESSIVE LRNG UNVSL MGMT	Maryland	USAF	RDTE/Other Defense-Management & Support	170
	QUANTEX CORPORATION	Maryland	USAF	RDTE/Other Defense-Management & Support	50
	QUEST RESEARCH CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support	132
	RADIANT TECHNOLOGIES	New Mexico	NAVY	RDTE/Other Defense-Management & Support	50
	RADIUS ENGINEERING AND TOOLING	Utah	USAF	RDTE/Other Defense-Management & Support	50
	RAND CORPORATION	California	ARMY	RDTE/Other Defense-Management & Support	54,105
	RESOURCE INTERNATIONAL INC	Ohio	USAF	RDTE/Other Defense-Management & Support	270
	RESOURCE TECHNOLOGIES GROUP	W Virginia	USAF	RDTE/Other Defense-Management & Support	100
	ROCKWELL INTERNATIONAL CORP	California	NAVY	RDTE/Other Defense-Management & Support	106

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AD96 (CONTINUED)					
	S TRON		USAF	RDTE/Other Defense-Management & Support	\$ 872
		STATE TOTAL			
		California	USAF	RDTE/Other Defense-Management & Support	978
	SAM TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support	236
					199
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Other Defense-Management & Support	500
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Defense-Management & Support	100
			USAF	RDTE/Other Defense-Management & Support	118
		STATE TOTAL			218
		Virginia	ARMY	RDTE/Other Defense-Management & Support	288
					484
	CONTRACTOR TOTAL				130
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Defense-Management & Support	59
	SCIENTIFIC TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Defense-Management & Support	701
	SEMCOR INC	New Jersey	NAVY	RDTE/Other Defense-Management & Support	1,256
	SENTEL CORPORATION	Florida	USAF	RDTE/Other Defense-Management & Support	110
	SERVIS DAVID A INC	Ohio	USAF	RDTE/Other Defense-Management & Support	50
	SIGMA PLUS INC	Virginia	NAVY	RDTE/Other Defense-Management & Support	102
	SONALYSTS INC	Conn	NAVY	RDTE/Other Defense-Management & Support	70
	SOUTHERN BIOTECHNOLOGY ASSOC	Alabama	ARMY	RDTE/Other Defense-Management & Support	100
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Defense-Management & Support	289
	SPARTA INC	California	USAF	RDTE/Other Defense-Management & Support	49
	SPECTRA SYSTEMS	Ohio	USAF	RDTE/Other Defense-Management & Support	50
	SPIRE CORPORATION	Mass	NAVY	RDTE/Other Defense-Management & Support	92
			USAF	RDTE/Other Defense-Management & Support	142
		STATE TOTAL			350
	SPS SOFTWARE PRODUCTS AND SVCS	New York	NAVY	RDTE/Other Defense-Management & Support	

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AD96 (CONTINUED)

SRI INTERNATIONAL	California	NAVY	RDTE/Other Defense-Management & Support	\$	620
	Florida	USAF	RDTE/Other Defense-Management & Support		72
CONTRACTOR TOTAL					692
SRS TECHNOLOGIES	California	USAF	RDTE/Other Defense-Management & Support		193
STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Defense-Management & Support		80
STRESS TECH INC	New York	USAF	RDTE/Other Defense-Management & Support		48
SYNETICS CORPORATION	Mass	ARMY	RDTE/Other Defense-Management & Support		225
SYSCON CORPORATION	D.C.	NAVY	RDTE/Other Defense-Management & Support		702
	Virginia	NAVY	RDTE/Other Defense-Management & Support		1,087
CONTRACTOR TOTAL					1,789
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support		625
SYSTEMS CONTROL TECHNOLOGY	California	USAF	RDTE/Other Defense-Management & Support		50
SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Defense-Management & Support		42
SYSTEMS TECHNOLOGY INC	California	USAF	RDTE/Other Defense-Management & Support		50
SYSTRAN CORP	Ohio	USAF	RDTE/Other Defense-Management & Support		398
TACAN CORPORATION	California	USAF	RDTE/Other Defense-Management & Support		100
TDA RESEARCH INC	Colorado	USAF	RDTE/Other Defense-Management & Support		106
TECHNOCHEM CO	N Carolina	USAF	RDTE/Other Defense-Management & Support		93
TECHNOLOGY SYSTEMS INC	Maine	USAF	RDTE/Other Defense-Management & Support		270
TESCO INC	Tennessee	USAF	RDTE/Other Defense-Management & Support		49
TEXAS RESEARCH INTERNATIONAL	Texas	USAF	RDTE/Other Defense-Management & Support		50
TRANS AMERICAN IMMUNOLOGY INC	Mass	ARMY	RDTE/Other Defense-Management & Support		87
TXS INC	Texas	USAF	RDTE/Other Defense-Management & Support		150
UNISYS CORPORATION	Virginia	NAVY	RDTE/Other Defense-Management & Support		120

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AD96 (CONTINUED)					
	UNITED STATES DEPT OF COMMERCE	Colorado	NAVY	RDTE/Other Defense-Management & Support	\$ 71
		D.C.	NAVY	RDTE/Other Defense-Management & Support	72
	CONTRACTOR TOTAL				143
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Defense-Management & Support	66
	UNIVERSITY OF MASSACHUSETTS	Mass	NAVY	RDTE/Other Defense-Management & Support	90
	VIGYAN RESEARCH ASSOCIATES	Virginia	USAF	RDTE/Other Defense-Management & Support	114
	VREULS RESEARCH CORPORATION	Virginia	ARMY	RDTE/Other Defense-Management & Support	230
	WEDEVEN ASSOCIATES INC	Penn	USAF	RDTE/Other Defense-Management & Support	51
	WOODS HOLE OCNRPHIC INSTUTE	Mass	NAVY	RDTE/Other Defense-Management & Support	304
	XACTON CORPORATION	Arizona	USAF	RDTE/Other Defense-Management & Support	164
	R&D TOTAL				172,658
AE21	NORTHWESTERN UNIVERSITY	Illinois	USAF	RDTE/Product or Srvc Improvement-Basic Res	94
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Product or Srvc Improvement-Basic Res	3,694
	R&D TOTAL				3,788
AE23	GRACE W R & CO INC	Mass	USAF	RDTE/Product or Srvc Improvement-Advanced	61
AE25	HAYES DIVERSIFIED TECHNOLOGIS	California	NAVY	RDTE/Product or Srvc Improvement-Op System	71
AE26	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Product or Srvc Imporvement-Mgmt & Su	85
AE31	LOCKHEED TECHNICAL SERVICES CO	California	ARMY	RDTE/Manufacturing Technology-Basic Resear	463
	NETROLOGIC INC	California	USAF	RDTE/Manufacturing Technology-Basic Resear	50
		Texas	USAF	RDTE/Manufacturing Technology-Basic Resear	50
	CONTRACTOR TOTAL				100
	R&D TOTAL				563
AE32	XEROX CORPORATION	California	ARMY	RDTE/Manufacturing Technology-Exploratory	1,593
AE33	METALWORKING TECHNOLOGY INC	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	80

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AE33 (CONTINUED)					
	UNIVERSITY OF PITTSBURGH	Penn	NAVY	RDTE/Manufacturing Technology-Advanced Dev	8,130
R&D TOTAL					8,210
AE34	COMPUTER SCIENCES CORPORATION	California	NAVY	RDTE/Manufacturing Technology-Engr Develop	847
	HUGHES AIRCRAFT COMPANY	California	ARMY	RDTE/Manufacturing Technology-Engr Develop	175
R&D TOTAL					1,022
AE35	APPLIED SOLAR ENERGY CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	899
	CENTRAL STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	301
	CINCINNATI MILACRON MKTG CO	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,034
	CLEMSON UNIVERSITY	S Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	1,317
	DRAVO CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	2,779
	EXTRUDE HONE CORPORATION	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	86
	FASHION INST OF TECHNOLOGY	New York	DLA	RDTE/Manufacturing Technology-Op Systems D	1,708
	GENERAL ATOMICS	California	USAF	RDTE/Manufacturing Technology-Op Systems D	3,004
	GENERAL ELECTRIC COMPANY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	5,700
	GEORGIA TECH RESEARCH CORP	Georgia	DLA	RDTE/Manufacturing Technology-Op Systems D	1,884
	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Manufacturing Technology-Op Systems D	43
	HONEYWELL INC	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	487
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,841
	INDUSTRIAL TECHNOLOGY INSTITUTE	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	91
	LAWRENCE ASSOCIATES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	7,267
	LOCKHEED CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	2,898
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Manufacturing Technology-Op Systems D	5,000
		Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	153
	CONTRACTOR TOTAL				5,153

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	--R&D DESCRIPTION--	
AE35 (CONTINUED)					
	MCDONNELL DOUGLAS CORPORATION	Missouri	USAF	RDTE/Manufacturing Technology-Op Systems D	\$ 1,032
	MECHANICAL TECHNOLOGY INC	New York	ARMY USAF	RDTE/Manufacturing Technology-Op Systems D RDTE/Manufacturing Technology-Op Systems D	265 1,167
			STATE TOTAL		1,432
	METCUT RESEARCH ASSOCIATES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	205
	MINNESOTA MIN & MFG COMPANY	Minnesota	USAF	RDTE/Manufacturing Technology-Op Systems D	900
	NATIONAL SEMICONDUCTOR CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	328
	NORTH CAROLINA STATE UNIV	N Carolina	DLA	RDTE/Manufacturing Technology-Op Systems D	406
	NORTHROP CORPORATION	California	USAF	RDTE/Manufacturing Technology-Op Systems D	7,843
		Illinois	USAF	RDTE/Manufacturing Technology-Op Systems D	600
					8,443
	CONTRACTOR TOTAL				70
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	420
	PERKIN ELMER CORPORATION	Conn	USAF	RDTE/Manufacturing Technology-Op Systems D	191
	R D & D CORP	Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	3,202
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,320
	RUTGERS THE STATE UNIVERSITY	New Jersey	DLA	RDTE/Manufacturing Technology-Op Systems D	1,104
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Manufacturing Technology-Op Systems D	251
	SETCO INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	225
	SOUTHWEST RESEARCH INSTITUTE	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	2,126
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	500
	TELEDYNE INDUSTRIES INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	11,677
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	4,142
	TEXAS INSTRUMENTS WESTINGHOUSE JV	Texas	USAF	RDTE/Manufacturing Technology-Op Systems D	120
	TRW INC	California	USAF	RDTE/Manufacturing Technology-Op Systems D	4,471
	UNITED TECHNOLOGIES CORP	Florida	USAF	RDTE/Manufacturing Technology-Op Systems D	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
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AE35 (CONTINUED)

	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	1,000
	UNIVERSAL TECHNOLOGY CORP	Ohio	USAF	RDTE/Manufacturing Technology-Op Systems D	2,888
	UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Manufacturing Technology-Op Systems D	100
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Manufacturing Technology-Op Systems D	529
		Penn	USAF	RDTE/Manufacturing Technology-Op Systems D	184

CONTRACTOR TOTAL

R&D TOTAL

89,758

AE36	ALPHA ENGINEERING INC	Texas	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	48
	ARTIFICIAL INTELLIGENCE CORP	Georgia	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	50
	EMCORE CORP	New Jersey	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	50
	INTELLIGENT AUTOMATION INC	Maryland	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	57
	MSNW INC	California	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	159
	SOUTH BEND LATHE INC	Indiana	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	52
	SYNCHRONETICS INC	Maryland	USAF	RDTE/Manufacturing Technology-Mgmt & Suppo	47
	SYSCON CORPORATION	D.C.	NAVY	RDTE/Manufacturing Technology-Mgmt & Suppo	1,870

R&D TOTAL

2,333

AE91	CENTER FOR STRATEGIC STUDY	D.C.	ARMY	RDTE/Other Econ Growth&Productivity-Basic	70
AF11	LA SALLE UNIVERSITY	Penn	NAVY	RDTE/Education-Basic Research	73
AF15	CAL POLY KLLOGG UNIT FNDTION O	California	NAVY	RDTE/Education-Operational Systems Develop	58
	COLLEGE ENTRNCE EXMNTION BARD	D.C.	ARMY	RDTE/Education-Operational Systems Develop	32
	H I HOMA CORP	PANAMA	ARMY	RDTE/Education-Operational Systems Develop	37

R&D TOTAL

127

AF16	MCGOWEN SA	PANAMA	ARMY	RDTE/Education-Management & Support	1,103
	UNIVERSITY OF PUERTO RICO	Puerto Ric	NAVY	RDTE/Education-Management & Support	27

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AG31	WELCH & HOWELL DRILLING INC	California	NAVY	RDTE/Energy - Geothermal - Basic Research	1,130
AG53	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Energy - Nuclear - Advanced Developme	348
AG72	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Energy - Solar - Exploratory Developm	528
AG86	SHELADIA ASSOCIATES INC	Penn	ARMY	RDTE/Conservation of Energy - Management &	31
AG91	ELECTROCHIMICA CORPORATION	California	ARMY	RDTE/Other Energy - Basic Research	50
AG92	TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Energy - Exploratory Developmen	650
AG93	CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Energy - Advanced Development	99
AG95	CELMEC SA	PANAMA	ARMY	RDTE/Other Energy - Operational Systems De	320
AG96	A & D ASSOCIATES	New York	NAVY	RDTE/Other Energy - Management & Support	46
	AMERICAN RESEARCH CORP VA	Virginia	NAVY	RDTE/Other Energy - Management & Support	50
	VIGYAN RESEARCH ASSOCIATES	Virginia	NAVY	RDTE/Other Energy - Management & Support	49
R&D TOTAL					
AH11	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	145
	CORNELL UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Basic Rese	56
	WESTERN WASHINGTON UNIVERSITY	Washington	NAVY	RDTE/Pollution Cntl & Abatement-Basic Rese	64
R&D TOTAL					
AH12	CLARKSON UNIVERSITY	New York	USAF	RDTE/Pollution Cntl & Abatement-Explorator	396
	COE TRUMAN TECHNOLOGIES INC	Illinois	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	516
	P E I ASSOCIATES INC	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	86
	SIGMA RESEARCH INC	Mass	USAF	RDTE/Pollution Cntl & Abatement-Explorator	402
	SYMBIOTECH INCORPORATED	Conn	NAVY	RDTE/Pollution Cntl & Abatement-Explorator	1,717
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	50
	WESTON ROY F INC	Penn	ARMY	RDTE/Pollution Cntl & Abatement-Explorator	161
R&D TOTAL					
					144
					1,502
					4,062

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AH15	A R E MANUFACTURING CO INC	Florida	NAVY	RDTE/Pollution Cntl & Abatement-Op Systems	\$ 44
AH16	MODELL DEVELOPMENT CORP	Mass	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	58
	SANITECH INC	Ohio	USAF	RDTE/Pollution Cntl & Abatement-Mgmt & Sup	368
	R&D TOTAL				426
AH26	SIGMA RESEARCH INC	Mass	USAF	RDTE/Air Pollution-Management & Support	75
AH31	CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Water Pollution-Basic Research	91
	MICHIGAN TCHNLGCL UNIVRSITY	Michigan	USAF	RDTE/Water Pollution-Basic Research	35
	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Water Pollution-Basic Research	90
	SRI INTERNATIONAL	California	USAF	RDTE/Water Pollution-Basic Research	75
	R&D TOTAL				291
AH32	NORTH DAKOTA STATE UNIVERSITY	N Dakota	USAF	RDTE/Water Pollution-Exploratory Developme	44
AH42	UNIVERSITY OF DAYTON INC	Ohio	ARMY	RDTE/Noise Pollution-Exploratory Developme	94
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Noise Pollution-Exploratory Developme	171
	R&D TOTAL				265
AH91	MC CLENAHAN & HOPKINS ASSOC	California	NAVY	RDTE/Other Environmental Protection-Basic	26-
AH92	ADVANCED SCIENCES INC	Florida	USAF	RDTE/Other Environmental Protection-Explor	320
	ASSOCIATED ENVIRONMENTAL SYS	Mass	ARMY	RDTE/Other Environmental Protection-Explor	31
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Other Environmental Protection-Explor	110
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Other Environmental Protection-Explor	135
	R&D TOTAL				596
AH94	ILLINOIS TOOL WORKS INC	California	NAVY	RDTE/Other Environmental Protection-Engr D	45
	TETRA TECH INC	California	USAF	RDTE/Other Environmental Protection-Engr D	3,016
	R&D TOTAL				3,061
AH96	APPLIED RESEARCH ASSOC INC	N Carolina	USAF	RDTE/Other Environmental Protection-Mgmt &	335
	AVCO CORPORATION	Conn	ARMY	RDTE/Other Environmental Protection-Mgmt &	3,050
	R&D TOTAL				3,385

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ11	ADAPTIVE SENSORS INC	California	USAF	RDTE/Physical Sciences - Basic Research	\$ 300
	ADVANCED COMPOSITE TECHNOLOGY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	172
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	155
	AEROJET	California	USAF	RDTE/Physical Sciences - Basic Research	101
	ALLIED SIGNAL INC	Maryland	USAF	RDTE/Physical Sciences - Basic Research	130
	AMPTK INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	588
	AMRON CORPORATION	Virginia	NAVY	RDTE/Physical Sciences - Basic Research	50
	ANALYSIS & COMPUTER SYSTEMS	Mass	USAF	RDTE/Physical Sciences - Basic Research	70
	ANRO ENGINEERING INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	75
	APPLIED & THEORETICAL MECH INC	California	USAF	RDTE/Physical Sciences - Basic Research	67
	APPLIED MCRWAVE PLMSA CONCEPTS	California	USAF	RDTE/Physical Sciences - Basic Research	280
	APPLIED RESEARCH ASSOC INC	Colorado	NAVY	RDTE/Physical Sciences - Basic Research	74
		New Mexico	USAF	RDTE/Physical Sciences - Basic Research	126
	CONTRACTOR TOTAL				200
	ARCO POWER TECHNOLOGY	D.C.	USAF	RDTE/Physical Sciences - Basic Research	341
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	320
	ATLANTIC AEROSPACE ELECTRONICS	Maryland	USAF	RDTE/Physical Sciences - Basic Research	500
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Basic Research	126
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	557
	BELL COMMUNICATIONS RESEARCH	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	155
	BELL TELEPHONE LABS INC	New Jersey	NAVY	RDTE/Physical Sciences - Basic Research	76
	BOEING COMPANY THE	Washington	USAF	RDTE/Physical Sciences - Basic Research	96
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Basic Research	2,569
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	591
	BROADCOM INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	171
	CAELUM RESEARCH CORP	Maryland	USAF	RDTE/Physical Sciences - Basic Research	370

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ11 (CONTINUED)

	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Physical Sciences - Basic Research	\$ 123
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Basic Research	86
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Basic Research	71
	CAMBRIDGE HYDRO DYNAMICS INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	39
	CANETICS INC	California	USAF	RDTE/Physical Sciences - Basic Research	100
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	450
	CENTRO DI CULTURA SCIENTIFICA	ITALY	ARMY	RDTE/Physical Sciences - Basic Research	37
	CIM SYSTEMS INC	Texas	USAF	RDTE/Physical Sciences - Basic Research	418
	CITY UNIVERSITY OF NY INC	New York	USAF	RDTE/Physical Sciences - Basic Research	121
	CLARK ATLANTA UNIVERSITY	Georgia	USAF	RDTE/Physical Sciences - Basic Research	76
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Basic Research	48
	COGNITECH INC	California	USAF	RDTE/Physical Sciences - Basic Research	70
	COLORADO STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research	267
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	995
	COMPUTATIONAL MECHANICS CO	Texas	USAF	RDTE/Physical Sciences - Basic Research	133
	CORNELL UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research	841
	CORP FOR STUDIES & ANALYSIS	California	USAF	RDTE/Physical Sciences - Basic Research	70
	DARTMOUTH COLLEGE	N.H.	USAF	RDTE/Physical Sciences - Basic Research	143
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	352
	DELFT UNIV OF TECHNOLOGY	NETHERLAND	USAF	RDTE/Physical Sciences - Basic Research	30
	E E G SYSTEMS LABORATORY INC	California	USAF	RDTE/Physical Sciences - Basic Research	150
	E I C LABORATORY INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	200
	ELECTRONIC MATERIALS ENGINEERI	California	USAF	RDTE/Physical Sciences - Basic Research	35
	ENGINEERING MECHANICS ASSOC	California	USAF	RDTE/Physical Sciences - Basic Research	39

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FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ11 (CONTINUED)

ENSCO INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	\$	70
	Virginia	USAF	RDTE/Physical Sciences - Basic Research		836
CONTRACTOR TOTAL					906
EPIR LTD	Illinois	USAF	RDTE/Physical Sciences - Basic Research		38
EPITAXX INC	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		200
EVI INCORPORATED	Maryland	ARMY	RDTE/Physical Sciences - Basic Research		158
FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Physical Sciences - Basic Research		182
FLIGHT DYNAM	California	USAF	RDTE/Physical Sciences - Basic Research		29
FLORIDA A & M UNIVERSITY	Florida	USAF	RDTE/Physical Sciences - Basic Research		241
G T DEVICES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research		111
GENERAL ATOMICS	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research		60- 838
STATE TOTAL					778
GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research		500
	New York	USAF	RDTE/Physical Sciences - Basic Research		2,150
	Ohio	USAF	RDTE/Physical Sciences - Basic Research		137
CONTRACTOR TOTAL					2,787
GEO CENTERS INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research		95-
	Mass	NAVY	RDTE/Physical Sciences - Basic Research		996
CONTRACTOR TOTAL					901
GEORGE MASON UNIVERSITY	Virginia	USAF	RDTE/Physical Sciences - Basic Research		100
GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Physical Sciences - Basic Research		118
HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research		199
HARVARD UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research		117

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ11 (CONTINUED)

HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Physical Sciences - Basic Research	\$	90
HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Basic Research		77
HOWARD UNIVERSITY	D.C.	USAF	RDTE/Physical Sciences - Basic Research		342
HUGHES AIRCRAFT COMPANY	California	NAVY	RDTE/Physical Sciences - Basic Research		122
		USAF	RDTE/Physical Sciences - Basic Research		723
	STATE TOTAL				845
I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Physical Sciences - Basic Research		642 -
IBIS TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research		230
INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Basic Research		382
INTERSPEC INC	Penn	USAF	RDTE/Physical Sciences - Basic Research		60
JOHNS HOPKINS UNIVERSITY	Maryland	USAF	RDTE/Physical Sciences - Basic Research		100
KOPIN CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research		200
KTAADN INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		39
LASERTRON INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		200
LIGHTWAVE ELECTRONICS CORP	California	USAF	RDTE/Physical Sciences - Basic Research		50
LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Physical Sciences - Basic Research		295
LOUISIANA STATE UNIV SYSTEM	Louisiana	USAF	RDTE/Physical Sciences - Basic Research		50
MAN LABS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research		32
MARTIN MARIETTA CORPORATION	Florida	USAF	RDTE/Physical Sciences - Basic Research		193
	Maryland	USAF	RDTE/Physical Sciences - Basic Research		100
CONTRACTOR TOTAL					293
MASSACHSTTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Basic Research		1,062
MATERIALS SCIENCES CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research		93
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research		26

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AJ11 (CONTINUED)

	CONTRACTOR TOTAL								
	MCMASTER UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research				\$	281
	MEHARRY MEDICAL COLLEGE	CANADA	USAF	RDTE/Physical Sciences - Basic Research					307
	MESOSCALE ENVIR SIMULATN	N Carolina	USAF	RDTE/Physical Sciences - Basic Research					32
	METRICA INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research					252
	METSAT INC	Texas	USAF	RDTE/Physical Sciences - Basic Research					26
	MICHIGAN STATE UNIVERSITY	Colorado	USAF	RDTE/Physical Sciences - Basic Research					402
	MINNESOTA MIN & MFG COMPANY	Michigan	ARMY	RDTE/Physical Sciences - Basic Research					100
	MISSION RESEARCH CORPORATION	Minnesota	USAF	RDTE/Physical Sciences - Basic Research					140
		California	USAF	RDTE/Physical Sciences - Basic Research					100
		N.H.	USAF	RDTE/Physical Sciences - Basic Research					369
	CONTRACTOR TOTAL								133
	MISSISSIPPI STATE UNIVERSITY	Miss	USAF	RDTE/Physical Sciences - Basic Research					502
	MULTISPEC CORPORATION	New Jersey	USAF	RDTE/Physical Sciences - Basic Research					33
	NATIONAL ACADEMY SCIENCES USA	D.C.	USAF	RDTE/Physical Sciences - Basic Research					240
	NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences - Basic Research					2,156
	NEW MEXICO STATE UNIVERSITY	New Mexico	USAF	RDTE/Physical Sciences - Basic Research					895
	NEW YORK UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Basic Research					273
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Basic Research					647
	NORTH CAROLINA A&T UNIV	N Carolina	USAF	RDTE/Physical Sciences - Basic Research					109
	NORTH CAROLINA CENTRAL UNIVER	N Carolina	USAF	RDTE/Physical Sciences - Basic Research					263
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Basic Research					279
	NORTHROP CORPORATION	California	NAVY	RDTE/Physical Sciences - Basic Research					260
	NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences - Basic Research					105
									394

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	NOVA UNIVERSITY INC	Florida	USAF	RDTE/Physical Sciences - Basic Research	100
	OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences - Basic Research	173
	ORION INTL TECHNOLOGIES	Mass	USAF	RDTE/Physical Sciences - Basic Research	143
	ORTEL CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	195
	OSBORNE ALLEN ASSOCIATES	California	USAF	RDTE/Physical Sciences - Basic Research	199
	P C O INC	California	USAF	RDTE/Physical Sciences - Basic Research	100
	PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Physical Sciences - Basic Research	83
	PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	40
	PHOTON RESEARCH ASSOCIATES	Mass	USAF	RDTE/Physical Sciences - Basic Research	188
	PHRAXOS RESEARCH & DEV	California	USAF	RDTE/Physical Sciences - Basic Research	74
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,267
	POLYTECHNIC UNIV OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	484
	PRINCETON SCIENTIFIC INSTRS	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	237
	PRINCETON UNIVERSITY	New Jersey	USAF	RDTE/Physical Sciences - Basic Research	176
	PROMETHEUS INC	New York	USAF	RDTE/Physical Sciences - Basic Research	50
	PURDUE UNIVERSITY	Indiana	USAF	RDTE/Physical Sciences - Basic Research	333
	R D P INC	Illinois	USAF	RDTE/Physical Sciences - Basic Research	444
		Mass	USAF	RDTE/Physical Sciences - Basic Research	451
	CONTRACTOR TOTAL				895
	RESEARCH FOUNDATION	New York	USAF	RDTE/Physical Sciences - Basic Research	952
	RESEARCH TRIANGLE INSTITUTE	N Carolina	USAF	RDTE/Physical Sciences - Basic Research	75
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	192
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Basic Research	490
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	500

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DEPARTMENT OF DEFENSE

ST06

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11	(CONTINUED)				
	S T D RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	67-
	SANDERS ASSOCIATES INTERNATINL	N.H.	USAF	RDTE/Physical Sciences - Basic Research	54
	SCHWARTZ ELECTRO-OPTICS INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	247
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Basic Research	161
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Basic Research	70
	SELF CORP	California	USAF	RDTE/Physical Sciences - Basic Research	60
	SOUTHEASTN CTR ELECTR ENG ED	Florida	USAF	RDTE/Physical Sciences - Basic Research	3,209
	SOUTHERN METHODIST UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Basic Research	230
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY USAF	RDTE/Physical Sciences - Basic Research	100 432
				STATE TOTAL	532
	SPACE SCIENCES CORP	New York	USAF	RDTE/Physical Sciences - Basic Research	367
	SPARTA INC	California	USAF	RDTE/Physical Sciences - Basic Research	746
		Virginia	USAF	RDTE/Physical Sciences - Basic Research	200
				CONTRACTOR TOTAL	946
	SPECTRAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,001
	SPIRE CORPORATION	Mass	USAF	RDTE/Physical Sciences - Basic Research	489
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Basic Research	2,070
	ST LOUIS UNIVERSITY	Missouri	USAF	RDTE/Physical Sciences - Basic Research	197
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Basic Research	2,608
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Basic Research	948
	SUPERCONDUCTOR TECHNOLOGIES	California	USAF	RDTE/Physical Sciences - Basic Research	200
	TACAN CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	144
	TECHNOLOGY & MGT SYSTEMS	Mass	USAF	RDTE/Physical Sciences - Basic Research	30

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ11 (CONTINUED)					
	TEL AVIV UNIVERSITY	ISRAEL	ARMY	RDTE/Physical Sciences - Basic Research	50
	TELEDYNE INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	99
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Physical Sciences - Basic Research	253
	TEXAS A & M RESEARCH FDN	Texas	USAF	RDTE/Physical Sciences - Basic Research	160
	TEXAS A & M UNIV SYS THE	Texas	USAF	RDTE/Physical Sciences - Basic Research	30
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	142
	TRW INC	California	USAF	RDTE/Physical Sciences - Basic Research	1,489
	TUFTS UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Basic Research	55
	TUSKEGEE UNIVERSITY	Alabama	USAF	RDTE/Physical Sciences - Basic Research	212
	ULTRASYSYSTEMS INCORPORATED	Texas	USAF	RDTE/Physical Sciences - Basic Research	33
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Basic Research	369
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	7,686
	UNIVERSITIES SPACE RES ASSN	Maryland	NAVY	RDTE/Physical Sciences - Basic Research	568
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Basic Research	26
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Basic Research	1,598
	UNIVERSITY OF ARKANSAS	Arkansas	USAF	RDTE/Physical Sciences - Basic Research	90
	UNIVERSITY OF CALIFORNIA	California	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	124 5,513
	STATE TOTAL				5,637
	UNIVERSITY OF CINCINNATI	Ohio	USAF	RDTE/Physical Sciences - Basic Research	60
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Physical Sciences - Basic Research	704
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Basic Research	46
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Physical Sciences - Basic Research	31
	UNIVERSITY OF DENVER	Colorado	USAF	RDTE/Physical Sciences - Basic Research	73

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AJ11 (CONTINUED)

UNIVERSITY OF DUBLIN	UNITED KIN	ARMY	RDTE/Physical Sciences - Basic Research	\$ 39
UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Physical Sciences - Basic Research	418
UNIVERSITY OF ILLINOIS	Illinois	NAVY	RDTE/Physical Sciences - Basic Research	70
		USAF	RDTE/Physical Sciences - Basic Research	32
	STATE TOTAL			102
UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Basic Research	1,023
UNIVERSITY OF MARYLAND	D.C.	NAVY	RDTE/Physical Sciences - Basic Research	69
UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Basic Research	383
UNIVERSITY OF MICHIGAN	Michigan	USAF	RDTE/Physical Sciences - Basic Research	750
UNIVERSITY OF MINNESOTA	Minnesota	USAF	RDTE/Physical Sciences - Basic Research	443
UNIVERSITY OF NEVADA SYSTEM	Nevada	USAF	RDTE/Physical Sciences - Basic Research	84
UNIVERSITY OF OREGON	Oregon	USAF	RDTE/Physical Sciences - Basic Research	46
UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Basic Research	562
UNIVERSITY OF PUERTO RICO	Puerto Ric	USAF	RDTE/Physical Sciences - Basic Research	90
UNIVERSITY OF RHODE ISLAND	Rhode Isld	USAF	RDTE/Physical Sciences - Basic Research	84
UNIVERSITY OF SOUTHERN MISSISS	Miss	USAF	RDTE/Physical Sciences - Basic Research	101
UNIVERSITY OF STERN CLFORNIA	California	USAF	RDTE/Physical Sciences - Basic Research	2,518
UNIVERSITY OF TENNESSEE	Tennessee	USAF	RDTE/Physical Sciences - Basic Research	122
UNIVERSITY OF TEXAS SYSTEM	Texas	USAF	RDTE/Physical Sciences - Basic Research	915
UNIVERSITY OF VIRGINIA	Virginia	USAF	RDTE/Physical Sciences - Basic Research	134
UNIVERSITY OF WASHINGTON	Washington	USAF	RDTE/Physical Sciences - Basic Research	288
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Basic Research	208
UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Basic Research	90
VIRGINIA PLYTHNIC INST/ST UNI	Virginia	USAF	RDTE/Physical Sciences - Basic Research	579

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AJ11 (CONTINUED)					
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Basic Research	\$ 853
	W E A	Mass	USAF	RDTE/Physical Sciences - Basic Research	60
	WAGNER DANIEL H ASSOCIATES	Virginia	USAF	RDTE/Physical Sciences - Basic Research	236
	WESTINGHOUSE ELECTRIC CORP	Penn	USAF	RDTE/Physical Sciences - Basic Research	796
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Basic Research	153
	XEROX CORPORATION	California	USAF	RDTE/Physical Sciences - Basic Research	45
	YALE UNIVERSITY	Conn	NAVY USAF	RDTE/Physical Sciences - Basic Research RDTE/Physical Sciences - Basic Research	55 73
		STATE TOTAL			128
	YORK UNIVERSITY	CANADA	USAF	RDTE/Physical Sciences - Basic Research	298
	R&D TOTAL				82,602
AJ12	AEROCHEM RESEARCH LABORATORIES	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	58
	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	726
	AEROMETRICS INC	California	ARMY	RDTE/Physical Sciences - Exploratory Devel	117
	APPLIED MICROWAVE PLASMA CONCEPTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	247
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	595
	ASSURANCE TECHNOLOGY CORP	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	150
	ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	340
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	863
	AWARE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	451
	BOSTON COLLEGE TRUSTEES OF	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	567
	BROWN UNIVERSITY	Rhode Isld	USAF	RDTE/Physical Sciences - Exploratory Devel	325
	C A E INDUSTRIES LTD	Arizona	USAF	RDTE/Physical Sciences - Exploratory Devel	92
	CALIFORNIA URBAN INDIAN HEALTH	California	USAF	RDTE/Physical Sciences - Exploratory Devel	130

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AJ12 (CONTINUED)					
	CALSPAN CORPORATION	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	185
	CANADIAN COMMERCIAL CORPORATI	CANADA	USAF	RDTE/Physical Sciences - Exploratory Devel	247
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	34
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	252
	CERAMATEC INC	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	333
	CLEMSON UNIVERSITY	S Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	110
	COGNITIVE SYSTEMS INC	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	1,548
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	110
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	DAVID SARNOFF RESEARCH CENTER	New Jersey	USAF	RDTE/Physical Sciences - Exploratory Devel	1,200
	EASTMAN KODAK COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	104
	EG&G RETICON	California	USAF	RDTE/Physical Sciences - Exploratory Devel	88
	FORD AEROSPACE CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	362
	GALAXY MICROSYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	GENERAL ELECTRIC COMPANY	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	122
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	68
	HAZELTINE CORPORATION	California	USAF	RDTE/Physical Sciences - Exploratory Devel	101
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	CONTRACTOR TOTAL				176
	HONEYWELL INC	Minnesota	USAF	RDTE/Physical Sciences - Exploratory Devel	200
	HORIZONS TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	214
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	70
	INTERNATIONAL BUS MCHS CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	81

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AJ12 (CONTINUED)

LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	\$ 41
LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Physical Sciences -	Exploratory Devel	950
MAN LABS INC	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	117
MASSACHSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	295
MASSACHSETTS INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	105
MAXWELL LABORATORIES INC	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	286
MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	48
METRICA INC	Texas	USAF	RDTE/Physical Sciences -	Exploratory Devel	1,155
MIMD SYSTEMS INC	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	49
MISSION RESEARCH CORPORATION	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	168
	N.H.	USAF	RDTE/Physical Sciences -	Exploratory Devel	907
CONTRACTOR TOTAL					1,075
MOSES HARRY E APPLIMATH CO	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	87
NEW MEXICO STATE OF	New Mexico	USAF	RDTE/Physical Sciences -	Exploratory Devel	60
NORTH CAROLINA STATE UNIV	N Carolina	USAF	RDTE/Physical Sciences -	Exploratory Devel	35
NORTHWEST RESEARCH ASSOCIATES	Washington	USAF	RDTE/Physical Sciences -	Exploratory Devel	147
OHIO STATE UNIVERSITY	Ohio	USAF	RDTE/Physical Sciences -	Exploratory Devel	350
P R B ASSOCIATES INC	Maryland	USAF	RDTE/Physical Sciences -	Exploratory Devel	50
PACIFIC SIERRA RESEARCH CORP	California	USAF	RDTE/Physical Sciences -	Exploratory Devel	120
PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	48
PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	218
PENNSYLVANIA STATE UNIV INC	Penn	USAF	RDTE/Physical Sciences -	Exploratory Devel	86
PHOTO METRIC INC	Mass	USAF	RDTE/Physical Sciences -	Exploratory Devel	100
R J O ENTERPRISES INC	Maryland	USAF	RDTE/Physical Sciences -	Exploratory Devel	200

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ12 (CONTINUED)					
	RADEX INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	RAYTHEON COMPANY	Rhode Isl	USAF	RDTE/Physical Sciences - Exploratory Devel	235
	REGIS COLLEGE	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	131
	RENSSELAER POLYTECHNIC INST	New York	USAF	RDTE/Physical Sciences - Exploratory Devel	100
	RESEARCH SUPPORT INSTRUMENTS	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	125
	RICE WILLIAM MARSH UNIVERSITY	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	446
	ROYAL NORWEGION COUNCIL	NORWAY	USAF	RDTE/Physical Sciences - Exploratory Devel	460
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Exploratory Devel	250
	S S G INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	180
	SCHWARTZ ELECTRO-OPTICS INC	Florida	USAF	RDTE/Physical Sciences - Exploratory Devel	775
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Physical Sciences - Exploratory Devel	800
	SOUTHEASTN CTR ELECTR ENG ED	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	525
	SOUTHWEST SCIENCES INC	New Mexico	ARMY	RDTE/Physical Sciences - Exploratory Devel	99
	SRI INTERNATIONAL	California	USAF	RDTE/Physical Sciences - Exploratory Devel	218
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Exploratory Devel	905
	SURVICE ENGINEERING CO INC	Maryland	NAVY	RDTE/Physical Sciences - Exploratory Devel	27
	TELEDYNE INDUSTRIES INC	Virginia	USAF	RDTE/Physical Sciences - Exploratory Devel	62
	ULTRAMET	California	USAF	RDTE/Physical Sciences - Exploratory Devel	270
	UNITED TECHNOLOGIES CORP	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	250
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Exploratory Devel	457
	UNIVERSITY NC AT CHAPEL HL	N Carolina	USAF	RDTE/Physical Sciences - Exploratory Devel	132
	UNIVERSITY OF ALASKA	Alaska	USAF	RDTE/Physical Sciences - Exploratory Devel	89
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel	527

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AJ12 (CONTINUED)					
	UNIVERSITY OF CHICAGO THE	Illinois	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	UNIVERSITY OF CONNECTICUT	Conn	USAF	RDTE/Physical Sciences - Exploratory Devel	64
	UNIVERSITY OF EDINBURGH	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	75
	UNIVERSITY OF IOWA THE	Iowa	USAF	RDTE/Physical Sciences - Exploratory Devel	50
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	122
	UNIVERSITY OF MARYLAND	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	446
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	196
	UNIVERSITY OF NOTTINGHAM	UNITED KIN	USAF	RDTE/Physical Sciences - Exploratory Devel	32
	UNIVERSITY OF PENNSYLVANIA	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	40
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Physical Sciences - Exploratory Devel	263
	UNIVERSITY OF STERN CLIFORNIA	California	USAF	RDTE/Physical Sciences - Exploratory Devel	238
	UNIVERSITY OF TEXAS AT DALLAS	Texas	USAF	RDTE/Physical Sciences - Exploratory Devel	244
	UNIVERSITY OF UTAH	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	80
	UNIVERSITY OF VERMONT	Vermont	USAF	RDTE/Physical Sciences - Exploratory Devel	74
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	USAF	RDTE/Physical Sciences - Exploratory Devel	135
	UNIVERSITY OF WYOMING	Wyoming	USAF	RDTE/Physical Sciences - Exploratory Devel	30
	UTAH STATE UNIVERSITY	Utah	USAF	RDTE/Physical Sciences - Exploratory Devel	11,411
	VIASAT INC	California	USAF	RDTE/Physical Sciences - Exploratory Devel	254
	VISIDYNE INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	86
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Physical Sciences - Exploratory Devel	293
		New York	USAF	RDTE/Physical Sciences - Exploratory Devel	226
	CONTRACTOR TOTAL				519
	WOODWARD CLYDE CONSULTANTS	California	USAF	RDTE/Physical Sciences - Exploratory Devel	45
	YAP ANALYTICS INC	Mass	USAF	RDTE/Physical Sciences - Exploratory Devel	245

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					37,861
AJ13	ADVANCED MATERIALS CORP	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	250
	AEROSPACE TECHNOLOGY COMPANY	Virginia	NAVY	RDTE/Physical Sciences - Advanced Developm	176
	ARCON CORPORATION	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	483
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	57
	BALL CORPORATION	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	173
	BOSTON UNIVERSITY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	185
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Physical Sciences - Advanced Developm	248
	CELCO TOOL & ENGINEERING	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	650
	CHRONOS RESEARCH LABORATORIES	California	USAF	RDTE/Physical Sciences - Advanced Developm	215
	COMPUTATIONAL PHYSICS INC	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	250
	CONDUCTUS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	50
	CRAMER H E COMPANY INC	Utah	ARMY	RDTE/Physical Sciences - Advanced Developm	92
	CREARE INC	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	250
	CULHAM LABORATORY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	892
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Physical Sciences - Advanced Developm	1,465
	GELTECH INC	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	32
	GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Physical Sciences - Advanced Developm	54
	HARRIS CORPORATION	Florida	USAF	RDTE/Physical Sciences - Advanced Developm	145
	INTEGRATED SYSTEMS INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	87
	LASER PHOTONICS TECHNOLOGY INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	98
	LASERCOM INC	California	NAVY	RDTE/Physical Sciences - Advanced Developm	193-
	MARTIN GOFFMAN ASSOC	New Jersey	USAF	RDTE/Physical Sciences - Advanced Developm	50
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Physical Sciences - Advanced Developm	53
	MASSACHSTTS INST OF TCHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	510

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ13 (CONTINUED)					
	MESOSCALE ENVIR SIMULATN	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	43
	METRICA INC	Texas	USAF	RDTE/Physical Sciences - Advanced Developm	715
	MISSION RESEARCH CORPORATION	N.H.	USAF	RDTE/Physical Sciences - Advanced Developm	1,419
	NATIONAL CENTRE TRIBOLOGY	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	185
	NORTHEASTERN UNIVERSITY CORP	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,501
	PACIFIC APPLIED RESEARCH INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	261
	PANAMETRICS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	100
	PEMCO AEROPLEX INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	801
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Physical Sciences - Advanced Developm	50
	PHYSICAL SCIENCES INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	50
	PHYSICS MATHEMATICS COMPUTER	New Mexico	NAVY	RDTE/Physical Sciences - Advanced Developm	77
	RMA AEROSPACE CO INC	California	USAF	RDTE/Physical Sciences - Advanced Developm	100
	RMS TECHNOLOGIES INCORPORATED	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	420
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Physical Sciences - Advanced Developm	250
	S F A INC	D.C.	NAVY	RDTE/Physical Sciences - Advanced Developm	191
	SCIENCE APPLICATIONS INTL CORP	Virginia	USAF	RDTE/Physical Sciences - Advanced Developm	50
	SCIENTIFIC SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	58
	SPACE DATA CORPORATION	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	450
	SPACE POWER INCORPORATED	California	USAF	RDTE/Physical Sciences - Advanced Developm	291
	SPARTA INC	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	55
	STANFORD UNIVERSITY	California	USAF	RDTE/Physical Sciences - Advanced Developm	196
	STATE UNIVERSITY OF NEW YORK	New York	USAF	RDTE/Physical Sciences - Advanced Developm	261
	SYSTEMS ENGINEERING INC	Maryland	USAF	RDTE/Physical Sciences - Advanced Developm	37
	SYSTEMS INTEGRATION ENGINEER	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,051

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AJ13 (CONTINUED)					
	TEXTRON INC	New York	USAF	RDTE/Physical Sciences - Advanced Developm	\$ 100
	UNITED KINGDOM AUTOMIC	UNITED KIN	USAF	RDTE/Physical Sciences - Advanced Developm	150
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Physical Sciences - Advanced Developm	189
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Physical Sciences - Advanced Developm	291
	UNIVERSITY OF CALIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	382
	UNIVERSITY OF LOWELL	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	3,619
	UNIVERSITY OF MASSACHUSETTS	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	257
	UNIVERSITY OF STHERN CLIFORNIA	California	USAF	RDTE/Physical Sciences - Advanced Developm	275
	WENTWORTH INST OF TECHNOLOGY	Mass	USAF	RDTE/Physical Sciences - Advanced Developm	1,103
	R&D TOTAL				21,248
AJ14	ANALYTIC SERVICES INC	Virginia	USAF	RDTE/Physical Sciences - Engineering Devel	24,003
	GENERAL ELECTRIC COMPANY	Florida	USAF	RDTE/Physical Sciences - Engineering Devel	416
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Physical Sciences - Engineering Devel	512
	OPHIR CORP	Colorado	NAVY	RDTE/Physical Sciences - Engineering Devel	481
	RADIATION EXPR & MONITORS	UNITED KIN	ARMY	RDTE/Physical Sciences - Engineering Devel	150
	ROBOTIC VISION SYSTEMS INC	New York	NAVY	RDTE/Physical Sciences - Engineering Devel	50
	SPIRE CORPORATION	Mass	NAVY	RDTE/Physical Sciences - Engineering Devel	539
	R&D TOTAL				26,151
AJ15	EPI SYSTEMS DIV CHORUS CORP	Minnesota	NAVY	RDTE/Physical Sciences - Operational Syste	432
	LITTON SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Operational Syste	420
	MILLIMETER WAVE TECHNOLOGY	Georgia	USAF	RDTE/Physical Sciences - Operational Syste	50
	R&D TOTAL				902
AJ16	AERODYNE RESEARCH INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	88
	AMERICAN RESEARCH CORP VA	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	49

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ16 (CONTINUED)					
	BERKELEY APPLIED SCIENCES ENGRG	California	USAF	RDTE/Physical Sciences - Management & Supp	49
	COMPUTER AIDED PLANNG SCHDLNG	Georgia	USAF	RDTE/Physical Sciences - Management & Supp	45
	DIVERSIFIED ENGINEERING INC	Virginia	USAF	RDTE/Physical Sciences - Management & Supp	818
	EHRlich ASSOCIATES	Mass	USAF	RDTE/Physical Sciences - Management & Supp	50
	F & H APPLIED ASSOCIATES INC	New Jersey	USAF	RDTE/Physical Sciences - Management & Supp	290
	FOSTER MILLER INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	250
	GELTECH INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	50
	HYPRES INC	New York	USAF	RDTE/Physical Sciences - Management & Supp	45
	INNOVA COMMUNICATIONS INC	California	USAF	RDTE/Physical Sciences - Management & Supp	54
	KEO CONSULTANTS	Mass	USAF	RDTE/Physical Sciences - Management & Supp	159
	KOZIN BOGDANOFF & ASSOCIATES	Indiana	USAF	RDTE/Physical Sciences - Management & Supp	49
	LIU & ASSOCIATES	Utah	USAF	RDTE/Physical Sciences - Management & Supp	46
	MASSACHSETTS TECHNOLOGICAL LAB	Mass	USAF	RDTE/Physical Sciences - Management & Supp	48
	MAYFLOWER COMMUNICATION CORP	Mass	USAF	RDTE/Physical Sciences - Management & Supp	250
	NETROLOGIC INC	California	USAF	RDTE/Physical Sciences - Management & Supp	47
	NIELSEN ENGINEERING & RES	California	USAF	RDTE/Physical Sciences - Management & Supp	45
	OPTRON SYSTEMS INC	Mass	USAF	RDTE/Physical Sciences - Management & Supp	48
	QUALCOMM INC	California	USAF	RDTE/Physical Sciences - Management & Supp	157
	RAND CORPORATION	California	USAF	RDTE/Physical Sciences - Management & Supp	25,243
	RISK & INDUSTRIAL SAFETY INC	Illinois	USAF	RDTE/Physical Sciences - Management & Supp	186
	SAM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	49
	SCIENTIFIC RESEARCH ASSOC INC	Conn	USAF	RDTE/Physical Sciences - Management & Supp	50
	SPACE RESEARCH TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	49
	SQM TECHNOLOGY INC	California	USAF	RDTE/Physical Sciences - Management & Supp	258

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AJ16 (CONTINUED)					
	TECHNO SCIENCES INC	Maryland	USAF	RDTE/Physical Sciences - Management & Supp	50
	TERRA TEK INC	Utah	USAF	RDTE/Physical Sciences - Management & Supp	50
	TS INFOSYSTEMS INC	Florida	USAF	RDTE/Physical Sciences - Management & Supp	248
	VISION SCIENCE RESEARCH CORP	California	USAF	RDTE/Physical Sciences - Management & Supp	49
	R&D TOTAL				28,869
	AJ21 HONEYWELL FEDERAL SYSTEMS	Virginia	ARMY	RDTE/Math & Computer Sciences - Basic Rese	300
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Math & Computer Sciences - Basic Rese	47
	UNIVERSITE PARIS-DAUPHINE	FRANCE	ARMY	RDTE/Math & Computer Sciences - Basic Rese	35
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Math & Computer Sciences - Basic Rese	26
	R&D TOTAL				408
	AJ22 CLARK ATLANTA UNIVERSITY	Georgia	ARMY	RDTE/Math & Computer Sciences - Explor Dev	254
	AJ23 HONEYWELL INC	Washington	NAVY	RDTE/Math & Computer Sciences - Advanced D	258
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Math & Computer Sciences - Advanced D	98
	R&D TOTAL				358
	AJ25 MASSACHUSETTS INSTITUTE OF TEC	Mass	NAVY	RDTE/Math & Computer Sci nces - Op Systems	50
	AJ26 FALCON COMMUNICATIONS CORP	Colorado	USAF	RDTE/Math & Computer Sciences - Mgmt & Sup	46
	AJ31 UNIVERSITY OF BRISTOL	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	29
	UNIVERSITY OF READING	UNITED KIN	ARMY	RDTE/Environmental Sciences - Basic Resear	38
	R&D TOTAL				65
	AJ32 ANDREWS & SCHOFIELD ASSOCIATES	UNITED KIN	ARMY	RDTE/Environmental Sciences - Explor Devel	80
	ERC ENVORNMENTAL & ENERGY SERV	California	ARMY	RDTE/Environmental Sciences - Explor Devel	167
	R&D TOTAL				247
	AJ36 BURGE & ASSOCIATES	Arizona	USAF	RDTE/Environmental Sciences - Management &	44
	TRANSDUCER RESEARCH INC	Illinois	USAF	RDTE/Environmental Sciences - Management &	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					
AJ41	A A I CORPORATION	Maryland	USAF	RDTE/Engineering Sciences - Basic Research	94
	ARON VECHT & ASSOCIATES	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	176
	BEN GURION UNIVERSITY OF THE N	ISRAEL	ARMY	RDTE/Engineering Sciences - Basic Research	27
	COMPUTATIONAL MECHANICS CO	Texas	USAF	RDTE/Engineering Sciences - Basic Research	30
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	USAF	RDTE/Engineering Sciences - Basic Research	50
	KYONG HYANG CONSTR & ENGR CO	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	120
	MISSISSIPPI STATE UNIVERSITY	Miss	ARMY	RDTE/Engineering Sciences - Basic Research	66
	OBSERVATORI DE LEBRE	SPAIN	USAF	RDTE/Engineering Sciences - Basic Research	124
	UNIVERSITY OF SURREY	UNITED KIN	ARMY	RDTE/Engineering Sciences - Basic Research	27
R&D TOTAL					
AJ42	FRAUNHAFFER GESELLSCHAFT ZUR FOE	GERMANY, F	ARMY	RDTE/Engineering Sciences - Exploratory De	29
AJ43	ADVANCED TECHNOLOGY INC	Virginia	ARMY	RDTE/Engineering Sciences - Advanced Devel	649
AJ44	FLORIDA ATLANTIC UNIVERSITY	Florida	NAVY	RDTE/Engineering Sciences - Engineering De	113
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	NAVY	RDTE/Engineering Sciences - Engineering De	64
	INFRARED FIBER SYSTEMS INC	Maryland	ARMY	RDTE/Engineering Sciences - Engineering De	69
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Engineering Sciences - Engineering De	32
	UNIVERSITY OF BRISTOL	UNITED KIN	NAVY	RDTE/Engineering Sciences - Engineering De	50
R&D TOTAL					
AJ46	ACCURATE AUTOMATION CORPORATIO	Tennessee	ARMY	RDTE/Engineering Sciences - Engineering De	139
	ADVANCED RES & APPLICATIONS	California	ARMY	RDTE/Engineering Sciences - Engineering De	30
	BRIMROSE CORP OF AMERICA	Maryland	ARMY	RDTE/Engineering Sciences - Engineering De	320
	MICRO OPTICS TECHNOLOGIES INC	Wisconsin	ARMY	RDTE/Engineering Sciences - Engineering De	50
	MSNW INC	California	ARMY	RDTE/Engineering Sciences - Engineering De	67
	SPARTA INC	California	ARMY	RDTE/Engineering Sciences - Engineering De	50
			ARMY	RDTE/Engineering Sciences - Engineering De	48
			ARMY	RDTE/Engineering Sciences - Engineering De	57
			ARMY	RDTE/Engineering Sciences - Engineering De	60

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AJ46 (CONTINUED)					
	THERMACORE INC	Penn	USAF	RDTE/Engineering Sciences - Management & S	\$ 58
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Engineering Sciences - Management & S	47
	UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Engineering Sciences - Management & S	30
	VATELL CORPORATION	Virginia	USAF	RDTE/Engineering Sciences - Management & S	51
	R&D TOTAL				518
	AJ51 UNIVERSITY OF NOTTINGHAM	UNITED KIN	ARMY	RDTE/Life Sciences - Basic Research	75
	AJ61 DELTA TEC INC	New Jersey	NAVY	RDTE/Psychological Sciences - Basic Resear	50
	SCIENTIFIC SYSTEMS INC	Mass	NAVY	RDTE/Psychological Sciences - Basic Resear	58
	UNIV OF BRADFORD	UNITED KIN	ARMY	RDTE/Psychological Sciences - Basic Resear	27
	UNIVERSIDADE NOVA DE LISBOA	PORTUGAL	ARMY	RDTE/Psychological Sciences - Basic Resear	50
	R&D TOTAL				185
	AJ63 ADVANCED TECHNOLOGY MATERIALS	Conn	NAVY	RDTE/Psychological Sciences - Advanced Dev	330
	AJ64 MAXIMA CORPORATION	California	NAVY	RDTE/Psychological Sciences - Engineering	233
	AJ66 HNC INC	California	USAF	RDTE/Psychological Sciences - Management &	50
	PACER SYSTEMS INC	Mass	USAF	RDTE/Psychological Sciences - Management &	50
	R&D TOTAL				100
	AJ71 NEW YORK UNIVERSITY	New York	ARMY	RDTE/Social Sciences - Basic Research	49
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Social Sciences - Basic Research	83
	R&D TOTAL				132
	AJ92 SCHAFER W J ASSOCIATES INC	Mass	ARMY	RDTE/Other Sciences - Exploratory Developm	276
	AJ93 TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY	RDTE/Other Sciences - Advanced Development	30
	AJ94 BOWIE STATE COLLEGE	Maryland	NAVY	RDTE/Other Sciences - Engineering Developm	35
	AJ95 UNIVERSITY OF MICHIGAN	Michigan	NAVY	RDTE/Other Sciences - Operational Systems	25
	AK11 UNIVERSITY OF ILLINOIS	Illinois	USAF	RDTE/Housing - Basic Research	49

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	AM14 EMPRESA CONSTRUCTORA BARTOS	BOLIVIA	ARMY	RDTE/Int'l Affairs & Cooperation-Engineeri	\$ 544
	AM15 LIMPIEZA JANUZ	BOLIVIA	ARMY	RDTE/Int'l Affairs & Cooperation-Op System	102
	SOFTECH INC	California	NAVY	RDTE/Int'l Affairs & Cooperation-Op System	1,821
	R&D TOTAL				1,923
	AN11 GENERAL HOSPITAL CORPORATION	Mass	NAVY	RDTE/Biomedical - Basic Research	4,500
	S R A TECHNOLOGIES INC	Virginia	ARMY	RDTE/Biomedical - Basic Research	1,000
	R&D TOTAL				5,500
	AN12 GEORGIA TECH RESEARCH CORP	Georgia	USAF	RDTE/Biomedical - Exploratory Development	154
	UNIVERSITY NC AT CHAPEL HL	California	NAVY	RDTE/Biomedical - Exploratory Development	51
	R&D TOTAL				205
	AN15 ASSOCIATE CONSULTANTS INC	D.C.	ARMY	RDTE/Biomedical - Operational Systems Deve	230
	AN16 ODETHICS INC	California	USAF	RDTE/Biomedical - Management & Support	197
	AN46 FOUNDATION HEALTH CORPORATION	California	ARMY	RDTE/Health Services - Management & Suppor	165,140
	AN62 CLINIC PHARMACOLOGY ASSOCIATES	Florida	ARMY	RDTE/Rehabilitative Engines-Explor Dev	218
	AN73 DISPLAYTECH INC	Colorado	ARMY	RDTE/Specialized Services - Advanced Devel	82
	AN76 NATIONAL EMERGENCY SERVICE	Nevada	USAF	RDTE/Specialized Services - Management & S	455
	AN91 ADEZA BIOMEDICAL CORP	California	ARMY	RDTE/Other Medical - Basic Research	50
	APPLIED PHYSICS INC	New York	ARMY	RDTE/Other Medical - Basic Research	50
	BAYLOR COLLEGE OF MEDICINE	Texas	ARMY	RDTE/Other Medical - Basic Research	354
	BIO MED INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	121-
	BIO METRIC SYSTEMS INC	Minnesota	ARMY	RDTE/Other Medical - Basic Research	58
	BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Basic Research	86
	BYRNE ROBERT	Virginia	ARMY	RDTE/Other Medical - Basic Research	32
	CALIFORNIA INST OF TECHNOLOGY	California	ARMY	RDTE/Other Medical - Basic Research	84
	CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Medical - Basic Research	91

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AN91 (CONTINUED)					
	CORVAS INC	California	ARMY	RDTE/Other Medical - Basic Research	\$ 500
	DYNAMAC INTERNATIONAL INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	177-
	EAGLE PICHER INDUSTRIES INC	Kansas	ARMY	RDTE/Other Medical - Basic Research	127
	ECOTECH INC	California	ARMY	RDTE/Other Medical - Basic Research	49
	ELECTROMAGNETIC TECHNOLOGY	Maryland	ARMY	RDTE/Other Medical - Basic Research	29
		Virginia	ARMY	RDTE/Other Medical - Basic Research	1,210
					1,239
	CONTRACTOR TOTAL				308
	ENERGY OPTICS INC	New Mexico	ARMY	RDTE/Other Medical - Basic Research	50
	ENZYME TECHNOLOGY RES GROUP	N Carolina	ARMY	RDTE/Other Medical - Basic Research	49
	EVAPORATED COATINGS INC	Penn	ARMY	RDTE/Other Medical - Basic Research	50
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Medical - Basic Research	49
	G M S ENGINEERING CORPORATION	Maryland	ARMY	RDTE/Other Medical - Basic Research	50
	GENELABS TECHNOLOGIES INC	California	ARMY	RDTE/Other Medical - Basic Research	221
	GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Basic Research	39
	GULF WEATHER CORP	Miss	ARMY	RDTE/Other Medical - Basic Research	50
	GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Basic Research	92
	HAHNEMANN UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Basic Research	50
	HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Basic Research	250
	HEBREW UNIVERSITY OF JERUSALEM	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	788
	HERNER & COMPANY INC	Maryland	ARMY	RDTE/Other Medical - Basic Research	340
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Basic Research	550
	MARYLAND STATE OF	Maryland	ARMY	RDTE/Other Medical - Basic Research	179
	MEDICAL COLLEGE OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Basic Research	78
	MOREHOUSE COLLEGE	Georgia	ARMY	RDTE/Other Medical - Basic Research	

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		\$
AN91	(CONTINUED)					
	NATURAL ENVIRONMTL RSCH COUNCI	UNITED KIN	ARMY	RDTE/Other Medical - Basic Research		110
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Basic Research		246
	NORTHEAST RESEARCH INSTITUTE	Conn	ARMY	RDTE/Other Medical - Basic Research		50
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY	RDTE/Other Medical - Basic Research		65
	ORD INC	N.H.	ARMY	RDTE/Other Medical - Basic Research		63
	OREGON HLTH SCNCES UNIVERSITY	Oregon	ARMY	RDTE/Other Medical - Basic Research		45-
	PHARMATEC INC	Florida	ARMY	RDTE/Other Medical - Basic Research		135
	PHYSICAL OPTICS CORPORATION	California	ARMY	RDTE/Other Medical - Basic Research		100
	POLYTRONIX INC	Texas	ARMY	RDTE/Other Medical - Basic Research		50
	PRINCETON SCIENTIFIC ENTRPRSS	New Jersey	ARMY	RDTE/Other Medical - Basic Research		50
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Basic Research		65
	RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research		80
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Basic Research		304
	SALK INST FOR BLGICAL STUDIES	California	ARMY	RDTE/Other Medical - Basic Research		30-
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Medical - Basic Research		1,660
	SCOTGEN LTE	UNITED KIN	ARMY	RDTE/Other Medical - Basic Research		267
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Basic Research		85
	SEPRATECH	California	ARMY	RDTE/Other Medical - Basic Research		50
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Basic Research		77
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Basic Research		69
	SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Basic Research		294
	SKI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Basic Research		50
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Basic Research		121
	STEADFAST INCORPORATED	Mass	ARMY	RDTE/Other Medical - Basic Research		50

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AN91 (CONTINUED)						
	STERIODS LTD	Illinois	ARMY	RDTE/Other Medical - Basic Research		77
	TECHNICAL RESEARCH ASSOCIATES	Utah	ARMY	RDTE/Other Medical - Basic Research		50
	UNIVAX CORP	Maryland	ARMY	RDTE/Other Medical - Basic Research		50
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Basic Research		151-
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Basic Research		1,027
	UNIVERSITY OF CHICAGO THE	Illinois	ARMY	RDTE/Other Medical - Basic Research		106
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Basic Research		190
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical - Basic Research		675
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical - Basic Research		409
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Basic Research		481
	UNIVERSITY OF NORTH TEXAS	Texas	ARMY	RDTE/Other Medical - Basic Research		161
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Medical - Basic Research		68
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Medical - Basic Research		108
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical - Basic Research		43
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Medical - Basic Research		69
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical - Basic Research		108
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Medical - Basic Research		231
	UPJCHN COMPANY THE	Michigan	ARMY	RDTE/Other Medical - Basic Research		27-
	VIPONT PHARMACETICAL	Colorado	ARMY	RDTE/Other Medical - Basic Research		80
	VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical - Basic Research		501
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Basic Research		90
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Medical - Basic Research		241
	WEIZMANN INSTITUTE THE	ISRAEL	ARMY	RDTE/Other Medical - Basic Research		271
	R&D TOTAL					14,440

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AN92	AMERICAN INST BIOLOGCL SCIENCE	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme	761
	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	58
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Medical - Exploratory Developme	94
	BIO TECHNOLOGY GENERAL CORP	New York	ARMY	RDTE/Other Medical - Exploratory Developme	26
	CALSPAN CORPORATION	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	117
	CATHOLIC UNIVERSITY OF AMERICA	D.C.	ARMY	RDTE/Other Medical - Exploratory Developme	878
	CHILDRENS MEDICAL CENTER CORP	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	136
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	133
	DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical - Exploratory Developme	1,152
	EG&G SPECIAL PROJECTS	New Mexico	ARMY	RDTE/Other Medical - Exploratory Developme	1,516
	GAMBLE JAMES N INST MED RES	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	122
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme	181
	GORGAS MEMORIAL INSTITUTE	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	100
	GULF COAST RESEARCH LABORATORY	Miss	ARMY	RDTE/Other Medical - Exploratory Developme	250
	HAWAII BIOTECHNOLOGY GROUP	Hawaii	ARMY	RDTE/Other Medical - Exploratory Developme	162
	HEALTH RESEARCH INC	New York	ARMY	RDTE/Other Medical - Exploratory Developme	284
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	89
	ISRAEL INST FOR BIOLOGICAL RES	ISRAEL	ARMY	RDTE/Other Medical - Exploratory Developme	113
	JAYCOR	California	ARMY	RDTE/Other Medical - Exploratory Developme	788
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	677
	LITTON SYSTEMS INC	Iowa	ARMY	RDTE/Other Medical - Exploratory Developme	47
	LONDON SCHOOL OF HYGIENE	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	197
	MARYLAND STATE OF	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	43
	MEDICAL COLLEGE OF PA	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	97
	MOLECULAR VACCINES INC	Maryland	ARMY	RDTE/Other Medical - Exploratory Developme	228
	NATURAL ENVIRONMTL RSCH COUNCI	UNITED KIN	ARMY	RDTE/Other Medical - Exploratory Developme	136

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	\$
AN92 (CONTINUED)					
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	270-
	OHIO UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	227
	OHIO WESLEYAN UNIVERSITY	Ohio	ARMY	RDTE/Other Medical - Exploratory Developme	101
	OREGON HLTH SCNCES UNIVERSITY	Oregon	ARMY	RDTE/Other Medical - Exploratory Developme	213
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	65
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Medical - Exploratory Developme	117
	QUESTECH INC	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	396
	RESEARCH FOUNDATION	New York	ARMY	RDTE/Other Medical - Exploratory Developme	75
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	439
	ROCKEFELLER UNIVERSITY INC	New York	ARMY	RDTE/Other Medical - Exploratory Developme	146
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Exploratory Developme	414
	SOUTHERN ILLINOIS UNIVERSITY	Illinois	ARMY	RDTE/Other Medical - Exploratory Developme	246
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	774
	SPELMAN COLLEGE	Georgia	ARMY	RDTE/Other Medical - Exploratory Developme	62
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Exploratory Developme	954
	STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Medical - Exploratory Developme	48
	STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical - Exploratory Developme	110
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Exploratory Developme	78
	THERMEDICS INC	Mass	ARMY	RDTE/Other Medical - Exploratory Developme	56
	THOMAS JEFFERSON UNIVERSITY	Penn	ARMY	RDTE/Other Medical - Exploratory Developme	1,042
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Medical - Exploratory Developme	215
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Exploratory Developme	102
	UNIVERSITY OF ALBERTA	CANADA	ARMY	RDTE/Other Medical - Exploratory Developme	34
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Exploratory Developme	460

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AN92 (CONTINUED)

UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Medical	- Exploratory Developme	\$ 282
UNIVERSITY OF COLORADO	Colorado	ARMY	RDTE/Other Medical	- Exploratory Developme	204
UNIVERSITY OF GEORGIA	Georgia	ARMY	RDTE/Other Medical	- Exploratory Developme	250-
UNIVERSITY OF HAWAII	Hawaii	ARMY	RDTE/Other Medical	- Exploratory Developme	56-
UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical	- Exploratory Developme	149
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical	- Exploratory Developme	59
UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Medical	- Exploratory Developme	175
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Medical	- Exploratory Developme	462
UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Medical	- Exploratory Developme	916
UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Medical	- Exploratory Developme	226
UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Medical	- Exploratory Developme	51
UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical	- Exploratory Developme	78
UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	72
UNIVERSITY OF RHODE ISLAND	Rhode Isl	ARMY	RDTE/Other Medical	- Exploratory Developme	69
UNIVERSITY OF SAN FRANCISCO	California	ARMY	RDTE/Other Medical	- Exploratory Developme	116
UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Medical	- Exploratory Developme	267
UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Medical	- Exploratory Developme	150
UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Medical	- Exploratory Developme	226
UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Medical	- Exploratory Developme	117
VIRGINIA COMMONWEALTH UNIV	Virginia	ARMY	RDTE/Other Medical	- Exploratory Developme	254
WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical	- Exploratory Developme	271
YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical	- Exploratory Developme	80
R&D TOTAL					18,407
AN93 ABEL COMPANY	Virginia	ARMY	RDTE/Other Medical	- Advanced Development	234

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN93 (CONTINUED)					
	AMERICAN OPTICAL CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	2,635
	ANATECH LTD	Virginia	ARMY	RDTE/Other Medical - Advanced Development	209
	B BRAUN BIOTECH INC	Penn	ARMY	RDTE/Other Medical - Advanced Development	548
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Medical - Advanced Development	6,397
		USAF	ARMY	RDTE/Other Medical - Advanced Development	86
	STATE TOTAL				6,483
	BIOLOGICAL RES FACULTY FACILITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	1,142
	BIONETICS RESEARCH INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	85
	BIOTECH RESEARCH LABORATORIES	Maryland	ARMY	RDTE/Other Medical - Advanced Development	125
	BROWN JOHN ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Medical - Advanced Development	129
	COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Medical - Advanced Development	164
	DANA FARBBER CANCER INSTITUTE	Mass	ARMY	RDTE/Other Medical - Advanced Development	65
	EAGLE PICHER INDUSTRIES INC	Kansas	ARMY	RDTE/Other Medical - Advanced Development	113
	EER SYSTEMS CORP	Virginia	ARMY	RDTE/Other Medical - Advanced Development	561
	GEORGETOWN UNIVERSITY	D.C.	ARMY	RDTE/Other Medical - Advanced Development	206
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	2,928
	HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Medical - Advanced Development	776
	HAZLETON LABORATORIES AMERICA	Virginia	ARMY	RDTE/Other Medical - Advanced Development	64-
	HUNTINGDON RESEARCH CENTER	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	125
	ICN BIOMEDICALS INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	29
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Medical - Advanced Development	47
	LOUISIANA STATE UNIVERSITY	Louisiana	ARMY	RDTE/Other Medical - Advanced Development	250
	M/A COM INC	Mass	ARMY	RDTE/Other Medical - Advanced Development	249
	MASSACHUSETTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Medical - Advanced Development	72

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN93 (CONTINUED)					
	MDT BIOLOGIC CO	New York	ARMY	RDTE/Other Medical - Advanced Development	76
	MDT CORPORATION	New York	ARMY	RDTE/Other Medical - Advanced Development	76-
	MEDICAL COLLEGE OF GEORGIA	Georgia	ARMY	RDTE/Other Medical - Advanced Development	159
	METTERS INDUSTRIES INC	Virginia	ARMY	RDTE/Other Medical - Advanced Development	38
	MICHIGAN DEPT PUBLIC HEALTH	Michigan	ARMY	RDTE/Other Medical - Advanced Development	1,456
	MICROPROBE CORP	Washington	ARMY	RDTE/Other Medical - Advanced Development	289
	MITRE CORPORATION	Virginia	ARMY	RDTE/Other Medical - Advanced Development	71-
	N E D H CORP	Mass	ARMY	RDTE/Other Medical - Advanced Development	112
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Medical - Advanced Development	183
	PALL CORPORATION	Florida	ARMY	RDTE/Other Medical - Advanced Development	1,466
	PATHOLOGY ASSOCIATES INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	187
	PHARM ECO LABORATORIES INC	California	ARMY	RDTE/Other Medical - Advanced Development	318
	PORTON INTERNATIONAL INC	UNITED KIN	ARMY	RDTE/Other Medical - Advanced Development	912
	RAYEX CORP	Maryland	ARMY	RDTE/Other Medical - Advanced Development	299
	RESEARCH TRIANGLE INSTITUTE	N Carolina	ARMY	RDTE/Other Medical - Advanced Development	388
	ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical - Advanced Development	120
	SALK INST FOR BLGICAL STUDIES	Penn	ARMY	RDTE/Other Medical - Advanced Development	6,657
	SCRIPPS CLINIC RES FOUNDATION	California	ARMY	RDTE/Other Medical - Advanced Development	146
	SHERIKON INC	Maryland	ARMY	RDTE/Other Medical - Advanced Development	1,500
	SLOAN KETTERING INSTITUTE	New York	ARMY	RDTE/Other Medical - Advanced Development	253
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Medical - Advanced Development	2,078
	SOUTHWEST FOUNDATION	Texas	ARMY	RDTE/Other Medical - Advanced Development	87
	SOUTHWEST RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Medical - Advanced Development	110
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Medical - Advanced Development	493

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AN93 (CONTINUED)					
	STARKS ASSOCIATES INC	New York	ARMY	RDTE/Other Medical - Advanced Development	286
	STERIMATICS CORPORATION	Mass	ARMY	RDTE/Other Medical - Advanced Development	11,140
	STEVENS ASH INC	Michigan	ARMY	RDTE/Other Medical - Advanced Development	297
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Advanced Development	42
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	1,517
	UNIVERSITY OF ALABAMA	Alabama	ARMY	RDTE/Other Medical - Advanced Development	171
	UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Medical - Advanced Development	1,062
	UNIVERSITY OF DAYTON INC	Ohio	USAF	RDTE/Other Medical - Advanced Development	297
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Medical - Advanced Development	190
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Medical - Advanced Development	267 -
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Medical - Advanced Development	284
	UNIVERSITY OF RHODE ISLAND	Rhode Isl	ARMY	RDTE/Other Medical - Advanced Development	174
	UNIVERSITY OF SOUTH FLORIDA	Florida	ARMY	RDTE/Other Medical - Advanced Development	132
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Medical - Advanced Development	139
	UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Medical - Advanced Development	134
	UTAH STATE UNIVERSITY	Utah	ARMY	RDTE/Other Medical - Advanced Development	778
	WASHINGTON UNIVERSITY	Missouri	ARMY	RDTE/Other Medical - Advanced Development	106
	WORLDWIDE BIOLOGICALS INC	Ohio	ARMY	RDTE/Other Medical - Advanced Development	1,400
	YALE UNIVERSITY	Conn	ARMY	RDTE/Other Medical - Advanced Development	450
	R&D TOTAL				52,623
AN94	BATTELLE MEMORIAL INSTITUTE	Ohio	USAF	RDTE/Other Medical - Engineering Developme	69
	DUPHAR BV	NETHERLAND	ARMY	RDTE/Other Medical - Engineering Developme	427
	GULL FOUNDATION FOR MED RES	Utah	ARMY	RDTE/Other Medical - Engineering Developme	50
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Medical - Engineering Developme	124

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AN94 (CONTINUED)					
	ROHM & HAAS COMPANY	Penn	ARMY	RDTE/Other Medical - Engineering Developme	\$ 7,390
	SYSTEMS RESEARCH LABORATORIES	Ohio	USAF	RDTE/Other Medical - Engineering Developme	109
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Medical - Engineering Developme	726
		CHILE	ARMY	RDTE/Other Medical - Engineering Developme	149
	CONTRACTOR TOTAL				875
	R&D TOTAL				9,044
AN95	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Medical - Operational Systems D	650
	KONIGSBERG INSTRUMENTS INC	California	ARMY	RDTE/Other Medical - Operational Systems D	263
	MICHIGAN DEPT PUBLIC HEALTH	Michigan	ARMY	RDTE/Other Medical - Operational Systems D	44
	R&D TOTAL				957
AN96	QUESTTECH INC	Ohio	USAF	RDTE/Other Medical - Management & Support	357
AP22	ENSCO INC	Florida	USAF	RDTE/Natural Resources - Land - Explor Dev	91
	MAXWELL LABORATORIES INC	California	USAF	RDTE/Natural Resources - Land - Explor Dev	580
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Natural Resources - Land - Explor Dev	26
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Natural Resources - Land - Explor Dev	1,070
	WESTON ROY F INC	Penn	ARMY	RDTE/Natural Resources - Land - Explor Dev	180
	WOODWARD CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Natural Resources - Land - Explor Dev	362
	R&D TOTAL				2,309
AP26	GEOTECHNICS INC	Ohio	USAF	RDTE/Natural Resources - Land - Mgmt & Sup	30
AP51	CULTURED SEAFOOD GROUP INC	Texas	OCE	RDTE/Natural Resources-Marine-Basic Resear	124
AP96	INDUSTRIAL MINERAL PRDCTS	PHILIPPINE	NAVY	RDTE/Natural Resources-Other-Management &	236
	KAHN HARRY J ASSOCIATES INC	New York	NAVY	RDTE/Natural Resources-Other-Management &	140
	R&D TOTAL				376
AQ92	SRI INTERNATIONAL	California	NAVY	RDTE/Social Services-Other-Exploratory Dev	53

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AR11	BOEING COMPANY THE	Washington	USAF	RDTE/Space - Aeronautics - Basic Research	11,791
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space - Aeronautics - Basic Research	10,244
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space - Aeronautics - Basic Research	1,000
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,000
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space - Aeronautics - Basic Research	999
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Aeronautics - Basic Research	11,404
	PHOTO METRIC INC	Mass	USAF	RDTE/Space - Aeronautics - Basic Research	180
	PHOTON RESEARCH ASSOCIATES	California	USAF	RDTE/Space - Aeronautics - Basic Research	1,908
	R&D TOTAL				38,526
AR12	AT&T TECHNOLOGIES INC	N Carolina	USAF	RDTE/Space - Aeronautics - Exploratory Dev	52
	HARRIS CORPORATION	Florida	USAF	RDTE/Space - Aeronautics - Exploratory Dev	82
	R&D TOTAL				134
AR13	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo	4,279
	ANALYTIX ELECTRONIC SYSTEMS	N.H.	NAVY	RDTE/Space - Aeronautics - Advanced Develo	150
	BARRIOS TECHNOLOGY INC	Texas	NAVY	RDTE/Space - Aeronautics - Advanced Develo	490
	ITE INC	Maryland	NAVY	RDTE/Space - Aeronautics - Advanced Develo	300
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Space - Aeronautics - Advanced Develo	227
	RAYTHEON SERVICE COMPANY	Mass	NAVY	RDTE/Space - Aeronautics - Advanced Develo	127
	S F A INC	D.C.	NAVY	RDTE/Space - Aeronautics - Advanced Develo	109
	R&D TOTAL				5,682
AR14	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space - Aeronautics - Engineering Dev	47
AR21	ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Space-Science Applications-Basic Rese	833
	AURA SYSTEMS	California	USAF	RDTE/Space-Science Applications-Basic Rese	47
	COMPUTATIONAL PHYSICS INC	Virginia	NAVY	RDTE/Space-Science Applications-Basic Rese	306
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Space-Science Applications-Basic Rese	66

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR21 (CONTINUED)					
	MCDONNELL DOUGLAS CORPORATION	California	NAVY	RDTE/Space-Science Applications-Basic Rese	50
	NORTHWESTERN UNIVERSITY	Illinois	NAVY	RDTE/Space-Science Applications-Basic Rese	875
	PHYSICAL SCIENCES INC	Virginia	USAF	RDTE/Space-Science Applications-Basic Rese	57
	SANDIA SYSTEMS INC	New Mexico	USAF	RDTE/Space-Science Applications-Basic Rese	59
	SPARTA INC	California	USAF	RDTE/Space-Science Applications-Basic Rese	64
	R&D TOTAL				2,357
AR22	CALIFORNIA INST OF TECHNOLOGY	California	USAF	RDTE/Space-Science Applications-Explor Dev	187
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space-Science Applications-Explor Dev	165
	STANFORD UNIVERSITY	California	USAF	RDTE/Space-Science Applications-Explor Dev	80
	R&D TOTAL				432
AR23	GRUMMAN AEROSPACE CORPORATION	New York	USAF	RDTE/Space-Science Applications-Advanced D	132,651
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space-Science Applications-Advanced D	178,409
	R&D TOTAL				311,060
AR24	COLSA INC	Texas	ARMY	RDTE/Space-Science Applications-Engineerin	207
AR25	AEROJET	California	USAF	RDTE/Space-Science Applications-Op Systems	3,122
	AEROSPACE CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	416,217
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space-Science Applications-Op Systems	400
	GENERAL ELECTRIC COMPANY	New Jersey	USAF	RDTE/Space-Science Applications-Op Systems	14,022
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space-Science Applications-Op Systems	739
	PERIGEE WEST COMPANY	California	USAF	RDTE/Space-Science Applications-Op Systems	150
	TRW INC	California	USAF	RDTE/Space-Science Applications-Op Systems	19,688
	R&D TOTAL				454,338
AR26	FOSTER MILLER INC	Mass	USAF	RDTE/Space-Science Applications-Mgmt & Sup	46
AR32	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Space Flight - Exploratory Developmen	186

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AR33	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space Flight - Advanced Development	1,554
AR34	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Space Flight - Engineering Developmen	84,857
	MCDONNELL DOUGLAS CORPORATION	California	USAF	RDTE/Space Flight - Engineering Developmen	114,096
	SYGNETRON PROTECTION SYSTEMS	Florida	USAF	RDTE/Space Flight - Engineering Developmen	452
	R&D TOTAL				199,405
AR35	BOEING COMPANY THE	Washington	USAF	RDTE/Space Flight - Operations Systems Dev	750
	MARTIN MARIETTA CORPORATION	California	USAF	RDTE/Space Flight - Operations Systems Dev	1,772-
		Colorado	USAF	RDTE/Space Flight - Operations Systems Dev	6,604
	CONTRACTOR TOTAL				4,832
	R&D TOTAL				5,582
AR41	GTE GOVERNMENT SYSTEMS CORP	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	391
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op - Tracking & Data Acq-Basic	43
	R&D TOTAL				434
AR42	JJM SYSTEMS INC	Penn	NAVY	RDTE/Space Op - Applied Research & Expl De	2,103
AR44	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Space Op - Trckng & Data Acq-Engineer	1,495
	INTERNATIONAL BUS MCHS CORP	Maryland	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	5,840
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	1,458
	TEXAS INSTRUMENTS INCORPORATED	Texas	USAF	RDTE/Space Op - Trckng & Data Acq-Engineer	2,018
	R&D TOTAL				10,811
AR45	AEROJET	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	1,315
	INTERNATIONAL BUS MCHS CORP	Colorado	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	26,855
		Maryland	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	13,139
	CONTRACTOR TOTAL				39,994
	LITTON SYSTEMS INC	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	8,053
	RESEARCH & DEV LABORATORIES	California	USAF	RDTE/Space Op-Trckng & Data Acq-Op Systems	81

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
R&D TOTAL					49,443
AR46	BERNER LANPHIER & ASSOCIATES	Maryland	USAF	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	30
	DYNCORP	New Mexico	ARMY	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	5,005
	METROLASER	California	USAF	RDTE/Space Op-Tracking & Data Acq-Mgmt & S	50
R&D TOTAL					5,085
AR61	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space-Station-Basic Research	10,711
	UNITED TECHNOLOGIES CORP	Florida	NAVY	RDTE/Space-Station-Basic Research	50
R&D TOTAL					10,761
AR63	GENERAL ELECTRIC COMPANY	Penn	USAF	RDTE/Space-Station-Advanced Development	2,492
AR91	AUBURN UNIVERSITY	Alabama	NAVY	RDTE/Space - Other - Basic Research	1,020
	GENERAL RESEARCH CORPORATION	California	USAF	RDTE/Space - Other - Basic Research	95
	GLOBE RUBBER WORKS INC	Mass	NAVY	RDTE/Space - Other - Basic Research	225
	INTRASPACE CORPORATION	Utah	NAVY	RDTE/Space - Other - Basic Research	1,177
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Space - Other - Basic Research	57
R&D TOTAL					2,574
AR92	ABTECH CORPORATION	Texas	USAF	RDTE/Space - Other - Exploratory Developme	48
	HELIX TECHNOLOGY CORPORATION	Mass	USAF	RDTE/Space - Other - Exploratory Developme	165
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space - Other - Exploratory Developme	31,700
	MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Space - Other - Exploratory Developme	390
	PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Space - Other - Exploratory Developme	550
	SCHAFER W J ASSOCIATES INC	Mass	NAVY	RDTE/Space - Other - Exploratory Developme	246
	SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Space - Other - Exploratory Developme	6,696
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Exploratory Developme	345
	TRW INC	California	USAF	RDTE/Space - Other - Exploratory Developme	14,524
R&D TOTAL					54,664

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AR93	BRUSH WELLMAN INC	Ohio	USAF	RDTE/Space - Other - Advanced Development	\$ 176
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space - Other - Advanced Development	85,385
	LOGICON INC	California	USAF	RDTE/Space - Other - Advanced Development	1,216
	MARTIN MARIETTA CORPORATION	Colorado	USAF	RDTE/Space - Other - Advanced Development	22,764
	NICHOLS RESEARCH CORPORATION	Alabama	USAF	RDTE/Space - Other - Advanced Development	300
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Advanced Development	47,038
	SPARTA INC	California	USAF	RDTE/Space - Other - Advanced Development	3,398
	R&D TOTAL				160,277
AR94	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Space - Other - Engineering Developme	784
	GENERAL DYNAMICS CORPORATION	Missouri	USAF	RDTE/Space - Other - Engineering Developme	1,687
	LOCKHEED TECHNICAL SERVICES CO	California	USAF	RDTE/Space - Other - Engineering Developme	1,818
	ROCKWELL INTERNATIONAL CORP	California	USAF	RDTE/Space - Other - Engineering Developme	1,340
	TRW INC	California	USAF	RDTE/Space - Other - Engineering Developme	517
	R&D TOTAL				6,146
AR95	DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Space - Other - Operational Systems D	150
	SOFTWARE ENGRG ASSOCIATES	California	USAF	RDTE/Space - Other - Operational Systems D	605
	SPACE APPLICATIONS CORPORATION	California	USAF	RDTE/Space - Other - Operational Systems D	8,347
	UNIVERSITY OF COLORADO	Colorado	USAF	RDTE/Space - Other - Operational Systems D	50
	R&D TOTAL				9,152
AR96	ADAPTIVE SENSORS INC	California	USAF	RDTE/Space - Other - Management & Support	290
		Texas	USAF	RDTE/Space - Other - Management & Support	290
	CONTRACTOR TOTAL				580
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	USAF	RDTE/Space - Other - Management & Support	53
	B D SYSTEMS INC	California	USAF	RDTE/Space - Other - Management & Support	3,356
	DECISION SCIENCE APPLICATIONS	Virginia	USAF	RDTE/Space - Other - Management & Support	189
	DEFENSE SYSTEMS INC	Virginia	USAF	RDTE/Space - Other - Management & Support	206

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AR96 (CONTINUED)					
	INDEPENDENT RISK ASSESSMENT	California	USAF	RDTE/Space - Other - Management & Support	182
	INTERSPEC INC	Penn	USAF	RDTE/Space - Other - Management & Support	389
	IRVINE TECHNOLOGY GROUP INC	California	USAF	RDTE/Space - Other - Management & Support	200
	MICROCOSM	California	USAF	RDTE/Space - Other - Management & Support	75
	ORBITAL SYSTEMS	Maryland	USAF	RDTE/Space - Other - Management & Support	290
	PHYSICAL OPTICS CORPORATION	California	USAF	RDTE/Space - Other - Management & Support	49
	PROCESS MANAGEMENT INSTITUTE	Minnesota	USAF	RDTE/Space - Other - Management & Support	95
	SPARTA INC	California	USAF	RDTE/Space - Other - Management & Support	2,160
	SYSTEMS & LOGISTICS CORP	California	USAF	RDTE/Space - Other - Management & Support	1,121
	TECOLOTE RESEARCH INC	California	USAF	RDTE/Space - Other - Management & Support	240
	THOMAS SCIFERS INC	California	USAF	RDTE/Space - Other - Management & Support	290
	TOYON RESEARCH CORP	California	USAF	RDTE/Space - Other - Management & Support	150
	TRW INC	California	USAF	RDTE/Space - Other - Management & Support	1,022
		Florida	USAF	RDTE/Space - Other - Management & Support	666-
	CONTRACTOR TOTAL				356
	R&D TOTAL				9,981
AS11	SCALED COMPOSITES INC	California	NAVY	RDTE/Transportation - Air - Basic Research	48
AS15	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Transportation - Air - Op Systems Dev	316
AS22	MISSION RESEARCH CORPORATION	New Mexico	NAVY	RDTE/Transportation - Motor Veh - Explor D	100
AS24	E M I TECHNOLOGIES INC	New Mexico	USAF	RDTE/Transportation - Motor Veh - Engineer	178
AS32	SCHMIDT ENGRG & EQP CO LTD	Idaho	NAVY	RDTE/Transportation - Rail - Exploratory D	53
AS41	APPLIED COMBUSTION TECHNOLOGY	Florida	NAVY	RDTE/Transportation - Marine - Basic Resear	124
AS91	ELECTRONIC WARFARE ASSOCIATES	Virginia	NAVY	RDTE/Transportation - Other - Basic Resear	48
	ERGON CORPORATION	Minnesota	NAVY	RDTE/Transportation - Other - Basic Resear	50

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AS91 (CONTINUED)						
	EUREKA LABORATORIES INC	California	NAVY	RDTE/Transportation - Other - Basic Resear	\$	75
R&D TOTAL						173
AT14	FOSTER MILLER INC	Mass	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev		305
	GENERAL DYNAMICS CORPORATION	Michigan	ARMY	RDTE/Trans - Hwys-Roads-Bridges - Engr Dev		9,926
R&D TOTAL						10,231
AT32	ARINC RESEARCH CORPORATION	Maryland	ARMY	RDTE/Trans - Navigational Aids - Explor De		192
AT95	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Trans - Other - Operational Systems D		2,889
	LONGHORN INTERNATIONAL EQP CO	Texas	ARMY	RDTE/Trans - Other - Operational Systems D		40
R&D TOTAL						2,929
AV71	RENSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Mining - Metallurgical - Basic Resear		35
AZ11	A P A OPTICS INC	Minnesota	NAVY	RDTE/Other Research & Development-Basic Re		500
	ACCURATE AUTOMATION CORPORATIO	Tennessee	NAVY	RDTE/Other Research & Development-Basic Re		500
	ADA TECHNOLOGIES	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		50
	ADCOM SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re		50
	ADROIT SYSTEMS INC	Arizona	NAVY	RDTE/Other Research & Development-Basic Re		59
	ADVANCED CNTERMEASURE SYSTEMS	California	ARMY	RDTE/Other Research & Development-Basic Re		49
	ADVANCED COMMUNICATIONS SYSTEMS	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		50
	ADVANCED COMPOSITE PRODUCTS	Conn	ARMY	RDTE/Other Research & Development-Basic Re		158
	ADVANCED COMPOSITE TECHNOLOGY	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		55
	ADVANCED PROJECTS RESEARCH INC	California	ARMY	RDTE/Other Research & Development-Basic Re		60
	ADVANCED TECHNOLOGY & RESEARCH	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		245
	ADVANCED TECHNOLOGY MATERIALS	Conn	ARMY	RDTE/Other Research & Development-Basic Re		201
			NAVY	RDTE/Other Research & Development-Basic Re		142
	STATE TOTAL					343

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AZ11	(CONTINUED)				
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re	48
	ALBANY INTERNATIONAL CORP	Mass	NAVY	RDTE/Other Research & Development-Basic Re	30
	ALFORD ROGERS CULLIMORE CONCEP	Florida	OCE	RDTE/Other Research & Development-Basic Re	30
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	30,327
	ALLIED SIGNAL INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	115
	ALPNET INC	Utah	ARMY	RDTE/Other Research & Development-Basic Re	57
	AMERASIA TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	AMERICAN ELECTRONICS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	700
	AMERICAN GNC CORP	California	USAF	RDTE/Other Research & Development-Basic Re	50
	AMERICAN INST RSRCH BEHAV SCI	D.C.	ARMY	RDTE/Other Research & Development-Basic Re	235
	AMERICAN RESEARCH CORP VA	Florida	USAF	RDTE/Other Research & Development-Basic Re	50
	AMERICAN SCIENTIFIC CORP	Virginia	OCE	RDTE/Other Research & Development-Basic Re	190
	ANALYTICA OF BRANFORD INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	100
	ANALYTICS INCORPORATED	PANAMA	ARMY	RDTE/Other Research & Development-Basic Re	60-
	APD CRYOGENICS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	494
	APPLIED MEASUREMENT SYSTEMS	Florida	NAVY	RDTE/Other Research & Development-Basic Re	50
	APPLIED RESEARCH ASSOC INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	343
		Vermont	ARMY	RDTE/Other Research & Development-Basic Re	225
	CONTRACTOR TOTAL				568
	APPLIED RESEARCH CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	90
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	311
	CONTRACTOR TOTAL				401
	APPLIED TECH	California	NAVY	RDTE/Other Research & Development-Basic Re	100
	APPLIED TECHNOLOGY ASSOCIATES	Florida	NAVY	RDTE/Other Research & Development-Basic Re	50
	AQUIDNECK MGT ASSOC LTD	Rhode Isld	OCE	RDTE/Other Research & Development-Basic Re	30

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AZ11 (CONTINUED)

ARETE ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	\$	286
ARIZONA STATE UNIVERSITY	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		505
ASSURANCE TECHNOLOGY CORP	Mass	NAVY	RDTE/Other Research & Development-Basic Re		1,359
ASTRON CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		47
	USAF	RDTE/Other Research & Development-Basic Re		50	
	STATE TOTAL				97
ASTROPOWER INC	Delaware	ARMY	RDTE/Other Research & Development-Basic Re		129
AT&T TECHNOLOGIES INC	New Jersey	NAVY	RDTE/Other Research & Development-Basic Re		161
	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		255
	USAF	RDTE/Other Research & Development-Basic Re		150	
	STATE TOTAL				405
CONTRACTOR TOTAL					566
ATEK DATA CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		50
ATLANTIC AEROSPACE ELECTRONICS	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		50
	Mass	NAVY	RDTE/Other Research & Development-Basic Re		51
	STATE TOTAL				101
CONTRACTOR TOTAL					649
ATLANTIC RESEARCH CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Basic Re		75
AUBURN UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Basic Re		114
	USAF	RDTE/Other Research & Development-Basic Re		189	
	STATE TOTAL				410
AUTOMATION RES SYSTEMS LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		30
AXIOMATIX	California	ARMY	RDTE/Other Research & Development-Basic Re		140
BAKER WILFRED ENGINEERING	Texas	ARMY	RDTE/Other Research & Development-Basic Re		30
BAKUA GERALD J	California	NAVY	RDTE/Other Research & Development-Basic Re		50
BALL CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re		

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AZ11 (CONTINUED)

BATTELLE MEMORIAL INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Basic Re		\$ 188
	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		30
	California	ARMY	RDTE/Other Research & Development-Basic Re		378
	Colorado	ARMY	RDTE/Other Research & Development-Basic Re		35
	Conn	ARMY	RDTE/Other Research & Development-Basic Re		177
	D.C.	ARMY	RDTE/Other Research & Development-Basic Re		76
	Florida	ARMY	RDTE/Other Research & Development-Basic Re		431
	Georgia	ARMY	RDTE/Other Research & Development-Basic Re		27
	Illinois	ARMY	RDTE/Other Research & Development-Basic Re		206
	Indiana	ARMY	RDTE/Other Research & Development-Basic Re		126
	Kansas	ARMY	RDTE/Other Research & Development-Basic Re		73
	Kentucky	ARMY	RDTE/Other Research & Development-Basic Re		46
	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re		30
	Maine	ARMY	RDTE/Other Research & Development-Basic Re		75
	Maryland	ARMY	RDTE/Other Research & Development-Basic Re		135
	Mass	ARMY	RDTE/Other Research & Development-Basic Re		283
	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		253
	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re		180
	Miss	ARMY	RDTE/Other Research & Development-Basic Re		79
	Missouri	ARMY	RDTE/Other Research & Development-Basic Re		160
	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re		56
	N.H.	ARMY	RDTE/Other Research & Development-Basic Re		40
	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		290
	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re		222

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AZ11 (CONTINUED)

	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$	138
	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		3,080
	Oklahoma	ARMY	RDTE/Other Research & Development-Basic Re		156
	Oregon	ARMY	RDTE/Other Research & Development-Basic Re		31
	Penn	ARMY	RDTE/Other Research & Development-Basic Re		139
	Rhode Islld	ARMY	RDTE/Other Research & Development-Basic Re		34
	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re		41
	Texas	ARMY	RDTE/Other Research & Development-Basic Re		393
	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		784
	Washington	ARMY	RDTE/Other Research & Development-Basic Re		139
	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re		66
	Wyoming	ARMY	RDTE/Other Research & Development-Basic Re		28
					8,625
	CONTRACTOR TOTAL				
	BDM INTERNATIONAL INC	USAF	RDTE/Other Research & Development-Basic Re		70
		ARMY	RDTE/Other Research & Development-Basic Re		59
					129
	CONTRACTOR TOTAL				
	BEGEJ CORP	USAF	RDTE/Other Research & Development-Basic Re		69
	BELTRAN ASSOCIATES INC	NAVY	RDTE/Other Research & Development-Basic Re		50
	BERKELEY RESEARCH ASSOCIATES	NAVY	RDTE/Other Research & Development-Basic Re		107
		NAVY	RDTE/Other Research & Development-Basic Re		381
					488
	CONTRACTOR TOTAL				
	BERNER LANPHIER & ASSOCIATES	ARMY	RDTE/Other Research & Development-Basic Re		170
	BOEING AEROSPACE & ELECTRONICS	ARMY	RDTE/Other Research & Development-Basic Re		366
	BORGMAN L E INC	OCE	RDTE/Other Research & Development-Basic Re		50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

BOSTON COLLEGE TRUSTEES OF	Mass	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$	27 264
	STATE TOTAL				291
BOSTON UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		114
BRANDEIS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re		64
BREWER SCIENCE INC	Missouri	ARMY	RDTE/Other Research & Development-Basic Re		50
BRIMROSE CORP OF AMERICA	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		50
BROWN UNIVERSITY	Rhode Isl	ARMY	RDTE/Other Research & Development-Basic Re		534
C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Basic Re		104
C V D EQUIPMENT CORPORATION	New York	USAF	RDTE/Other Research & Development-Basic Re		100
C V D INCORPORATED	Mass	NAVY	RDTE/Other Research & Development-Basic Re		292
CALIFORNIA INST OF TECHNOLOGY	California	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		625 110 105
	STATE TOTAL				840
CALIFORNIA RES & TECHNOLOGY	California	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re		528 30
	STATE TOTAL				558
CALIFORNIA ST UNIV SAN DIEGO	California	NAVY	RDTE/Other Research & Development-Basic Re		1,396
CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Basic Re		1,287
CAMBRIDGE SCIENTIFIC INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re		68
CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re		170
CAROLINIAN SYSTEMS RESEARCH CO	N Carolina	NAVY	RDTE/Other Research & Development-Basic Re		45
CASE WESTERN RESERVE UNIV	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		284
CATHOLIC UNIVERSITY OF AMERICA	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		32
CHAPMAN RAY & ASSOCIATES	Miss	OCE	RDTE/Other Research & Development-Basic Re		31

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AZ11	(CONTINUED)				
	CHARLES RIVER ANALYTICS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	\$ 50
	CHASE CONSULTANTS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	293
	CHI SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	140
	CHICAGO BRIDGE & IRON COMPANY	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	46
	CHOCTAW ENGINEERING CO INC	Miss	ARMY	RDTE/Other Research & Development-Basic Re	558
	CHOMERICS INC	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	153
	CHU ASSOCIATES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	58
	CLEMSON UNIVERSITY	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	106
	CODENOLL TECH	New York	NAVY	RDTE/Other Research & Development-Basic Re	57
	COLLEGE OF WILLIAM & MARY VA	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	30
	COLORADO SCHOOL OF MINES	Colorado	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	129 66
		STATE TOTAL			195
	COLORADO STATE UNIVERSITY	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	1,376
	COLUMBIA UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	947
	COMMAND SYSTEMS GROUP INC	California	NAVY	RDTE/Other Research & Development-Basic Re	125
	COMMONWEALTH OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	89
	COMPUTATIONAL LOGIC INC	Texas	NAVY	RDTE/Other Research & Development-Basic Re	159
	COMPUTER DATA SYSTEMS INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	74
	CONSULTANTS CHOICE INC	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	36
	CONTEL FEDERAL SYSTEMS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	1,311
	COOKE JERRY A & ASSOCIATES	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	53
	CORNELL UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	4,915
	COUSINO METAL PRODUCTS INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	50

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AZ11 (CONTINUED)					
	CRYSTALLUME	California	NAVY	RDTE/Other Research & Development-Basic Re	271
	D C W INDUSTRIES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	122
	DAEDALUS ENTERPRISES INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	414
	DAMES & MOORE	Georgia	OCE	RDTE/Other Research & Development-Basic Re	263
	DARTMOUTH COLLEGE	N.H.	ARMY	RDTE/Other Research & Development-Basic Re	109
			NAVY	RDTE/Other Research & Development-Basic Re	40
			STATE TOTAL		149
	DATA COMPUTER CORP OF AMERICA	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	115
	DATRON SYSTEMS INCORPORATED	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	DAVIS TECHNOLOGIES	Texas	NAVY	RDTE/Other Research & Development-Basic Re	49
	DECISION SCIENCE CONSORTIUM	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	178
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50
	DELFIN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re	572
	DELTA INFORMATION SYSTEMS	Penn	NAVY	RDTE/Other Research & Development-Basic Re	50
	DENVER MUS OF NATURAL HISTORY	Colorado	OCE	RDTE/Other Research & Development-Basic Re	32
	DIGITAL SIGNAL CORPORATION	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	200
	DIGITAL SYSTEM RESOURCES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	737
	DISPLAYTECH INC	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	109
	DONMAR LTD	Florida	USAF	RDTE/Other Research & Development-Basic Re	51
	DOW CHEMICAL COMPANY THE	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	250
	DUKE UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	1,052
	DYNA CARN INDUSTRIES INC	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	DYNAMIC ANALYSIS & TEST ASSOC	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	DYNAMIC GRAPHICS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	170

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AZ11 (CONTINUED)					
	DYNATEST CONSULTING INC	California	ARMY	RDTE/Other Research & Development-Basic Re	239
	E A ENGRING SCENCE TECHNOLOGY	Louisiana	OCE	RDTE/Other Research & Development-Basic Re	81
	E TEK DYNAMICS INC	California	ARMY	RDTE/Other Research & Development-Basic Re	100
	EAGLE TECHNOLOGY INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	150
	EARTH TECHNOLOGY CORP WESTERN	California	ARMY	RDTE/Other Research & Development-Basic Re	337
	EAST CAROLINA UNIVERSITY	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	59
	ECONOMIC MODELS	Penn	ARMY	RDTE/Other Research & Development-Basic Re	88
	ELECTRO MAGNETIC APPLICATION	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	221
	ELECTRO OPTEK CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	57
	ELECTROIMPACT INC	Washington	NAVY	RDTE/Other Research & Development-Basic Re	50
	EMCORE CORP	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	50
	ENERGY COMPRESSION RES CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	510
	ENVIRO SCAN INC	Washington	OCE	RDTE/Other Research & Development-Basic Re	43
	ENVIRONMENTAL RESEARCH	Michigan	ARMY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	467 325
	STATE TOTAL				
	EVANS CHARLES & ASSOCIATES	California	USAF	RDTE/Other Research & Development-Basic Re	1,599
	EVANS HAMILTON INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	443
	FAIRCHILD INDUSTRIES INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	282
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Research & Development-Basic Re	89
	FLIGHT TECHNOLOGY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	49
	FLORIDA ATLANTIC UNIVERSITY	Florida	OCE	RDTE/Other Research & Development-Basic Re	27
	FLORIDA MAXIMA CORP	Florida	ARMY	RDTE/Other Research & Development-Basic Re	59
	FLOUROCHEM INC	California	ARMY	RDTE/Other Research & Development-Basic Re	117

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

FLOW ANALYSIS INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$	73
FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Basic Re		37
FM TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re		352
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re		378
FRANKLIN ENGINEERING CO	Michigan	ARMY	RDTE/Other Research & Development-Basic Re		48
FRAUNHAUFER GESELLSCHAFT ZUR FOE	GERMANY, F	ARMY	RDTE/Other Research & Development-Basic Re		45
FRESHWATER BIOLOGICAL ASSOC	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		40
FRONTIER TECHNOLOGIES CORP	Mass	USAF	RDTE/Other Research & Development-Basic Re		81
FRONTIER TECHNOLOGY INC	California	USAF	RDTE/Other Research & Development-Basic Re		265
FTR INC	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re		50
GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		514
	Texas	ARMY	RDTE/Other Research & Development-Basic Re		3,843
CONTRACTOR TOTAL					4,357
GENERAL ELECTRIC COMPANY	New York	ARMY	RDTE/Other Research & Development-Basic Re		1,261
		NAVY	RDTE/Other Research & Development-Basic Re		157
STATE TOTAL					1,418
GENERAL RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re		100
		USAF	RDTE/Other Research & Development-Basic Re		1,749
STATE TOTAL					1,849
CONTRACTOR TOTAL					300
GENERAL SCIENCES INC	Penn	USAF	RDTE/Other Research & Development-Basic Re		2,149
GENTEX CORPORATION	Penn	ARMY	RDTE/Other Research & Development-Basic Re		51
GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re		570
	Mass	NAVY	RDTE/Other Research & Development-Basic Re		2,795
					1,039

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

CONTRACTOR TOTAL					\$	3,834
GEORGE WASHINGTON UNIV THE	D.C.	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			88 147
STATE TOTAL						235
GEORGETOWN UNIVERSITY	D.C.	NAVY	RDTE/Other Research & Development-Basic Re			369
GEORGIA INSTITUTE TECHNOLOGY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re			2,599
GEORGIA STATE UNIVERSITY	Georgia	ARMY	RDTE/Other Research & Development-Basic Re			54
GEORGIA TECH RESEARCH CORP	Alabama	ARMY	RDTE/Other Research & Development-Basic Re			48
	Georgia	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			1,147 200
STATE TOTAL						1,347
						1,395
CONTRACTOR TOTAL						30
GIFFORD FRANKLIN A	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re			50
GSC ASSOCIATES INC	California	NAVY	RDTE/Other Research & Development-Basic Re			500
GSX SERVICES INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re			65
HARRIS CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Basic Re			83
HARVARD UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re			115
HIGH & SCOPE EDUCATIONAL RES F	Michigan	ARMY	RDTE/Other Research & Development-Basic Re			50
HIGH PERFORMANCE MARINE PROD	Missouri	NAVY	RDTE/Other Research & Development-Basic Re			37
HITC SUPERCONCO	Penn	NAVY	RDTE/Other Research & Development-Basic Re			60
HITE SUPERCONCO	Penn	NAVY	RDTE/Other Research & Development-Basic Re			47
HNC INC	California	NAVY	RDTE/Other Research & Development-Basic Re			77
HODGES TRANSPORTATION INC	Nevada	ARMY	RDTE/Other Research & Development-Basic Re			113
HONEYWELL INC	Minnesota	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re			143

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 256 652 423
	STATE TOTAL				1,075
	HUMAN FACTOR SOLUTIONS	Maryland	USAF	RDTE/Other Research & Development-Basic Re	190
	HYDROACOUSTICS INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	4,834
	HYDROQUAL INC	New Jersey	OCE	RDTE/Other Research & Development-Basic Re	71
	HYPRES INC	New York	NAVY	RDTE/Other Research & Development-Basic Re	132
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	185
	I I T RESEARCH INSTITUTE	Illinois	DLA	RDTE/Other Research & Development-Basic Re	3,629
	IMAGE ACOUSTICS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	26
	IMPERIAL COLLEGE OF SCIENCE &	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	34
	INERTIA SWITCH INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	1,435
	INFORMATION TECHNOLOGY	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	97
	INFORMATION SYSTEMS NTRKS CORP	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	574
	INFRARED FIBER SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	109
	INSTITUT NATIONAL DE RECHERCHE	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re	35
	INSTITUTE DE CHIMIE PHYSIQUE	SWITZERLAN	ARMY	RDTE/Other Research & Development-Basic Re	32
	INTERFEROMETRICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	300
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	182
	CONTRACTOR TOTAL				482
	INTERNATIONAL BUS MCHS CORP	New York	ARMY	RDTE/Other Research & Development-Basic Re	90
	INTERNETNAL TCHNCAL ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	IONWERKS	Texas	ARMY	RDTE/Other Research & Development-Basic Re	50

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AZ11 (CONTINUED)					
	IOWA STATE UNIV SCNC	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	\$ 45
	IRVINE SENSORS CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	499
	ITE INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	245
	J & D SCIENTIFIC INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	182
	J R S RESEARCH LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re	84
	JAI ASSOCIATES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	42
	JAYCOR	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	255
		Miss	OCE	RDTE/Other Research & Development-Basic Re	55
	CONTRACTOR TOTAL				310
	JOHNS HOPKINS UNIVERSITY	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	222
	JOINT MANAGEMENT SERVICES CO	Georgia	ARMY	RDTE/Other Research & Development-Basic Re	190
	KANSAS STATE UNIVERSITY	Kansas	ARMY	RDTE/Other Research & Development-Basic Re	17-
	KLEIN ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	271
			NAVY	RDTE/Other Research & Development-Basic Re	188
			STATE TOTAL		459
	KOPIN CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	725
	LASER POWER CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	492
	LASER SYSTEMS & RSCH CORP	California	NAVY	RDTE/Other Research & Development-Basic Re	1,100
	LEHIGH UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Basic Re	204
			NAVY	RDTE/Other Research & Development-Basic Re	44
			OCE	RDTE/Other Research & Development-Basic Re	39
			STATE TOTAL		287
	LIFE SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	70
	LIGHTBUS TECHNOLOGY INC	Texas	NAVY	RDTE/Other Research & Development-Basic Re	50
	LIGHTING SCIENCES INC	Arizona	ARMY	RDTE/Other Research & Development-Basic Re	120

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AZ11 (CONTINUED)					
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Basic Re	\$ 374
	LOCKHEED TECHNICAL SERVICES CO	California	NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	328 610
		STATE TOTAL			938
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	216
					1,154
	LOCUS INC	Penn	NAVY	RDTE/Other Research & Development-Basic Re	405
		Virginia	NAVY	RDTE/Other Research & Development-Basic Re	591
					996
	LOUISIANA STATE UNIV SYSTEM	Louisiana	ARMY	RDTE/Other Research & Development-Basic Re	38
	LTV AEROSPACE & DEF CO	Texas	USAF	RDTE/Other Research & Development-Basic Re	337
	LUTRONIX INC	California	NAVY	RDTE/Other Research & Development-Basic Re	50
	LYNNTECH INC	Texas	ARMY	RDTE/Other Research & Development-Basic Re	50
	M SQUARE MICROTEK INC	California	NAVY	RDTE/Other Research & Development-Basic Re	250
	MANAGEMENT COMM & CTRL	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	520
	MANAGEMENT CONSULTING & RES	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	82
	MARIQUEST INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	90
	MARK RESOURCES INC	California	ARMY	RDTE/Other Research & Development-Basic Re	534
	MARKO MATERIALS INC	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
	MARQUARDT COMPANY THE	California	NAVY	RDTE/Other Research & Development-Basic Re	30
	MARTIN MARIETTA CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	2,000
	MARYLAND STATE OF	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	60
	MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	5,639 362 228

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AZ11	(CONTINUED)			
		OCE	RDTE/Other Research & Development-Basic Re	\$ 66
	CONTRACTOR TOTAL	STATE TOTAL		6,295
		Minnesota	NAVY RDTE/Other Research & Development-Basic Re	30
	MAXWELL LABORATORIES INC	California	ARMY RDTE/Other Research & Development-Basic Re	6,325
		NAVY	RDTE/Other Research & Development-Basic Re	47
		USAF	RDTE/Other Research & Development-Basic Re	812
		STATE TOTAL		1,751
		Illinois	NAVY RDTE/Other Research & Development-Basic Re	2,610
	MC CRONE WALTER C ASSOCIATES	CANADA	ARMY RDTE/Other Research & Development-Basic Re	240
	MC GILL UNIVERSITY	Illinois	NAVY RDTE/Other Research & Development-Basic Re	75
	MCCRONE ASSOC INC	California	NAVY RDTE/Other Research & Development-Basic Re	50
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY RDTE/Other Research & Development-Basic Re	206
		ARMY	RDTE/Other Research & Development-Basic Re	110
	CONTRACTOR TOTAL			316
	MESOSCALE ENVIR SIMULATN	New York	ARMY RDTE/Other Research & Development-Basic Re	82
	METATHERM INC	Penn	NAVY RDTE/Other Research & Development-Basic Re	50
	METRON INC	Virginia	NAVY RDTE/Other Research & Development-Basic Re	1,003
	MICHIGAN STATE UNIVERSITY	Michigan	ARMY RDTE/Other Research & Development-Basic Re	100
		OCE	RDTE/Other Research & Development-Basic Re	144
		STATE TOTAL		244
	MICHIGAN TCHNLGCL UNIVERSITY	Michigan	ARMY RDTE/Other Research & Development-Basic Re	149
	MICROLCTRNICs CTR OF N CRLINA	N Carolina	NAVY RDTE/Other Research & Development-Basic Re	30
	MICROWAVE RADIO CORP	Mass	NAVY RDTE/Other Research & Development-Basic Re	250
	MIDDLEBURY COLLEGE	Vermont	OCE RDTE/Other Research & Development-Basic Re	54
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY RDTE/Other Research & Development-Basic Re	51
	MINNESOTA MIN & MFG COMPANY	Minnesota	ARMY RDTE/Other Research & Development-Basic Re	164

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AZ11 (CONTINUED)

MISSION RESEARCH CORPORATION	California	NAVY	RDTE/Other Research & Development-Basic Re	630
		USAF	RDTE/Other Research & Development-Basic Re	149
	STATE TOTAL			779
	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	88
CONTRACTOR TOTAL				867
MISSISSIPPI STATE UNIVERSITY	Miss	ARMY	RDTE/Other Research & Development-Basic Re	35
		OCE	RDTE/Other Research & Development-Basic Re	76
	STATE TOTAL			111
N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	50
N K H INC	California	ARMY	RDTE/Other Research & Development-Basic Re	94
NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Basic Re	1,449
NATIONAL HYBRID INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	100
NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	963
NEW YORK UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re	110
NICHOLS RESEARCH CORPORATION	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	200
		NAVY	RDTE/Other Research & Development-Basic Re	50-
	STATE TOTAL			150
NORDEN SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	448
NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re	587
NORTHWESTERN UNIVERSITY	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	298
OCEAN SYSTEMS RESEARCH INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
ODYSSEY RESEARCH ASSOCIATES	New York	USAF	RDTE/Other Research & Development-Basic Re	300
OGUSHWITZ TECHNICAL CONSULTING	New Jersey	OCE	RDTE/Other Research & Development-Basic Re	55
OHIO STATE UNIVERSITY	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	210
		OCE	RDTE/Other Research & Development-Basic Re	140
	STATE TOTAL			350

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	OKLAHOMA STATE UNIVERSITY	Oklahoma	ARMY OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	\$ 172 75
	STATE TOTAL				247
	OPHIR CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	52
	OPTTECH INC	CANADA	OCE	RDTE/Other Research & Development-Basic Re	572
	OPTICAL COATING LABORATORY	California	NAVY	RDTE/Other Research & Development-Basic Re	300
	OPTICS ONE INC	California	NAVY	RDTE/Other Research & Development-Basic Re	51
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	600
	ORBIT ADVANCED TECHNOLOGIES IN	Penn	NAVY	RDTE/Other Research & Development-Basic Re	706
	ORCON CORPORATION	California	ARMY	RDTE/Other Research & Development-Basic Re	49
	OREGON STATE UNIVERSITY	Oregon	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	80 174
	STATE TOTAL				254
	OSBORNE ALLEN ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re	47
	OUACHITA BAPTIST UNIVERSITY	Arkansas	OCE	RDTE/Other Research & Development-Basic Re	77
	PADGITT HOWARD R & ASSOCIATES	Illinois	ARMY	RDTE/Other Research & Development-Basic Re	56
	PASK RESEARCH & ENGINEERING	California	NAVY	RDTE/Other Research & Development-Basic Re	49
	PENNSYLVANIA STATE UNIV INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re	280
	PEQUEGNAT WILLIS E	California	OCE	RDTE/Other Research & Development-Basic Re	60
	PHLOGISTRONICS	Mass	NAVY	RDTE/Other Research & Development-Basic Re	50
	PHOTON RESEARCH ASSOCIATES	California	ARMY	RDTE/Other Research & Development-Basic Re	50
	PHYSICAL RESEARCH INC	Alabama	USAF	RDTE/Other Research & Development-Basic Re	37
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Other Research & Development-Basic Re	125
	POLYCYCLE	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	50
	POTOMAC PHOTONICS INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	80
	POTOMAC RESEARCH INCORPORATED	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	110

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	PRINCETON COMBUSTION RES LABS	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	106
	PRINCETON UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	702
	PROPULSION DYNAMICS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	965
	PROTECTIVE GROUP INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	39
	PURDUE RESEARCH FOUNDATION	Indiana	OCE	RDTE/Other Research & Development-Basic Re	81
	PURDUE UNIVERSITY	Indiana	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	388 26 60
	STATE TOTAL				474
	Q DOT INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re	818
	QUESTTECH INC	Ohio	USAF	RDTE/Other Research & Development-Basic Re	386
	RAYTHEON COMPANY	Mass	NAVY	RDTE/Other Research & Development-Basic Re	736
		Rhode Islnd	NAVY	RDTE/Other Research & Development-Basic Re	291
	CONTRACTOR TOTAL				1,027
	REKENTHALER TECHNOLOGY ASSOC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	50
	RENSSELAER POLYTECHNIC INST	New York	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	971 30
	STATE TOTAL				1,001
	RESEARCH FOUNDATION	New York	ARMY	RDTE/Other Research & Development-Basic Re	214
	RICE WILLIAM MARSH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	155
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	360 100
	STATE TOTAL				460
	RUTGERS THE STATE UNIVERSITY	New Jersey	ARMY NAVY	RDTE/Other Research & Development-Basic Re RDTE/Other Research & Development-Basic Re	268 125
	STATE TOTAL				393

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ11 (CONTINUED)					
	S C S TELECOM INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	\$ 43
	S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	2,473
		Maryland	NAVY	RDTE/Other Research & Development-Basic Re	142
	CONTRACTOR TOTAL				2,615
	S M SYSTEMS & RESEARCH CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	54
	S T SYSTEMS CORPORATION	Mass	USAF	RDTE/Other Research & Development-Basic Re	120
	SCHOTT GLASS TECHNOLOGIES INC	Penn	ARMY	RDTE/Other Research & Development-Basic Re	195
	SCHWARTZ ELECTRO-OPTICS INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re	102
	SCIENCE & TECHNOLOGY CORP	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	390
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	2,263
			NAVY	RDTE/Other Research & Development-Basic Re	3,014
	STATE TOTAL				5,277
	CONTRACTOR TOTAL				5,667
	SCIENCE APPLICATIONS INTL CORP	California	ARMY	RDTE/Other Research & Development-Basic Re	480
			NAVY	RDTE/Other Research & Development-Basic Re	1,217
			USAF	RDTE/Other Research & Development-Basic Re	168
			DLA	RDTE/Other Research & Development-Basic Re	35
	STATE TOTAL				1,900
		Virginia	ARMY	RDTE/Other Research & Development-Basic Re	391
			NAVY	RDTE/Other Research & Development-Basic Re	400
	STATE TOTAL				791
	CONTRACTOR TOTAL				2,691
	SCIENCE SERVICES	Ohio	NAVY	RDTE/Other Research & Development-Basic Re	51
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Basic Re	139
	SECO DYN INC	California	ARMY	RDTE/Other Research & Development-Basic Re	28
	SEDIMENT INSTRMTATION RES DEV	Illinois	OCE	RDTE/Other Research & Development-Basic Re	66
	SENTEC CORPORATION	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	SIGCOM INC	Illinois	NAVY	RDTE/Other Research & Development-Basic Re	\$ 51
	SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	206
	SMITHSONIAN INSTITUTION	Mass	NAVY	RDTE/Other Research & Development-Basic Re	31
	SOFEC INC	Texas	OCE	RDTE/Other Research & Development-Basic Re	87
	SOFTWARE ARCHITECTURE & ENGRG	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	278
	SOFTWARE TECHNOLOGY INC	D.C.	NAVY	RDTE/Other Research & Development-Basic Re	445
		Florida	NAVY	RDTE/Other Research & Development-Basic Re	2,105
	CONTRACTOR TOTAL				2,550
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Basic Re	124
	SOUTHERN METHODIST UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Basic Re	196
	SOUTHWEST RESEARCH INSTITUTE	California	NAVY	RDTE/Other Research & Development-Basic Re	42
		Texas	ARMY	RDTE/Other Research & Development-Basic Re	85
			NAVY	RDTE/Other Research & Development-Basic Re	92
	STATE TOTAL				177
	CONTRACTOR TOTAL				219
	SPACE POWER INCORPORATED	California	NAVY	RDTE/Other Research & Development-Basic Re	570
	SPACE TECH CORP	Colorado	ARMY	RDTE/Other Research & Development-Basic Re	175
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Basic Re	60
			NAVY	RDTE/Other Research & Development-Basic Re	123
	STATE TOTAL				183
	SPECTRA DIODE LABORATORIES	California	NAVY	RDTE/Other Research & Development-Basic Re	110
	SPECTRAL SCIENCES INC	Mass	ARMY	RDTE/Other Research & Development-Basic Re	50
	SPIRE CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Basic Re	410
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Basic Re	841
			USAF	RDTE/Other Research & Development-Basic Re	88

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AZ11 (CONTINUED)

	DLA	RDTE/Other Research & Development-Basic Re	\$
STATE TOTAL			
STACKS INC	California	NAVY	RDTE/Other Research & Development-Basic Re
			47
STANDARD GRAVEL COMPANY INC	Louisiana	OCE	RDTE/Other Research & Development-Basic Re
			111
STANFORD UNIVERSITY	California	ARMY	RDTE/Other Research & Development-Basic Re
		NAVY	RDTE/Other Research & Development-Basic Re
			2,965
			151
STATE TOTAL			
STATE UNIVERSITY OF NEW YORK	New York	ARMY	RDTE/Other Research & Development-Basic Re
			935
STATISTICA INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re
			2,336
STATISTICAL SIGNAL	California	ARMY	RDTE/Other Research & Development-Basic Re
			127
STRATEGY CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Basic Re
			45-
SUNOL SCIENCES CORP	California	ARMY	RDTE/Other Research & Development-Basic Re
			323
SURFACE OPTICS CORP	California	ARMY	RDTE/Other Research & Development-Basic Re
			70
	Florida	USAF	RDTE/Other Research & Development-Basic Re
			53
CONTRACTOR TOTAL			
SUTTON M M & ASSOCS	California	ARMY	RDTE/Other Research & Development-Basic Re
			123
SYNDETIX INC	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re
			332
SYRACUSE UNIVERSITY	New York	ARMY	RDTE/Other Research & Development-Basic Re
			307
SYSTEM ENGINEERING & DEV CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re
			248
SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Basic Re
			50
SYSTEMS ENGINEERING ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Basic Re
			39
SYSTEMS TECHN ASSOC	Hawaii	NAVY	RDTE/Other Research & Development-Basic Re
			112
TAYLOR J F INC	Maryland	USAF	RDTE/Other Research & Development-Basic Re
			48-
TECHNO SCIENCES INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re
			101
TELEDYNE INDUSTRIES INC	California	NAVY	RDTE/Other Research & Development-Basic Re
			50
			50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	CONTRACTOR TOTAL				\$
	TERRA TEK INC	Virginia	USAF	RDTE/Other Research & Development-Basic Re	393
	TESECO SRL	Utah	ARMY	RDTE/Other Research & Development-Basic Re	443
	TEXAS A & M RESEARCH FDN	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	124
		Texas	ARMY OCE	RDTE/Other Research & Development-Basic Re	31
				RDTE/Other Research & Development-Basic Re	138
				RDTE/Other Research & Development-Basic Re	41
		STATE TOTAL			179
	TEXAS A & M UNIV SYS THE	Texas	NAVY	RDTE/Other Research & Development-Basic Re	50
	TEXAS INSTRUMENTS INCORPORATED	Texas	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re	57
				RDTE/Other Research & Development-Basic Re	52
				RDTE/Other Research & Development-Basic Re	195
		STATE TOTAL			304
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Basic Re	208
	THE ANALYTIC SCIENCE CORP	Mass	USAF	RDTE/Other Research & Development-Basic Re	420
	THERMO ELECTRON INC	California	NAVY	RDTE/Other Research & Development-Basic Re	700
	TITAN CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Basic Re	787
	TOOMAY MATHIS & ASSOCIATES	Montana	ARMY	RDTE/Other Research & Development-Basic Re	194
	TRACOR AEROSPACE INC	California	NAVY	RDTE/Other Research & Development-Basic Re	36
	TRACOR HYDRONAUTICS INC	Maryland	OCE	RDTE/Other Research & Development-Basic Re	65
	TRI TESSCO	Texas	NAVY	RDTE/Other Research & Development-Basic Re	57
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Basic Re	482
	TRW INC	California	NAVY	RDTE/Other Research & Development-Basic Re	4,567
	TS INFOSYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	257
	TUFTS UNIVERSITY	Mass	ARMY	RDTE/Other Research & Development-Basic Re	120
	TUSKEGEE UNIVERSITY	Alabama	ARMY	RDTE/Other Research & Development-Basic Re	30

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(AMOUNTS IN THOUSANDS)

CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION
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AZ11 (CONTINUED)

TVI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	\$	250
U B C INC	Florida	NAVY	RDTE/Other Research & Development-Basic Re		50
UNION CARBIDE CHEM & PLAS CO	Washington	NAVY	RDTE/Other Research & Development-Basic Re		50
UNIQUE MOBILITY INC	Colorado	NAVY	RDTE/Other Research & Development-Basic Re		100
UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Basic Re		537
		NAVY	RDTE/Other Research & Development-Basic Re		46
STATE TOTAL					583
UNIVERSITE PARIS-DAUPHINE	FRANCE	ARMY	RDTE/Other Research & Development-Basic Re		53
UNIVERSITIES SPACE RES ASSN	Maryland	NAVY	RDTE/Other Research & Development-Basic Re		459
UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Basic Re		194
		OCE	RDTE/Other Research & Development-Basic Re		132
STATE TOTAL					326
UNIVERSITY NOTRE DAME	Indiana	ARMY	RDTE/Other Research & Development-Basic Re		136
UNIVERSITY OF ALABAMA	Alabama	USAF	RDTE/Other Research & Development-Basic Re		77
UNIVERSITY OF ALBERTA	CANADA	ARMY	RDTE/Other Research & Development-Basic Re		40
UNIVERSITY OF ARIZONA	Arizona	ARMY	RDTE/Other Research & Development-Basic Re		90
UNIVERSITY OF ARKANSAS	Arkansas	ARMY	RDTE/Other Research & Development-Basic Re		57
UNIVERSITY OF CALIFORNIA	California	ARMY	RDTE/Other Research & Development-Basic Re		2,756
		NAVY	RDTE/Other Research & Development-Basic Re		41
		USAF	RDTE/Other Research & Development-Basic Re		55
		OCE	RDTE/Other Research & Development-Basic Re		672
STATE TOTAL					3,524
UNIVERSITY OF CAMBRIDGE	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re		70
UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Basic Re		227
UNIVERSITY OF CINCINNATI	Mass	ARMY	RDTE/Other Research & Development-Basic Re		306
	Ohio	ARMY	RDTE/Other Research & Development-Basic Re		99

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)				
CONTRACTOR TOTAL				
UNIVERSITY OF COLORADO	Colorado	ARMY NAVY	RDTE/Other Research & Development-Basic Re	270
	STATE TOTAL			369
UNIVERSITY OF CONNECTICUT	Conn	ARMY	RDTE/Other Research & Development-Basic Re	675
UNIVERSITY OF DAYTON INC	Ohio	ARMY	RDTE/Other Research & Development-Basic Re	849
UNIVERSITY OF DELAWARE	Delaware	ARMY	RDTE/Other Research & Development-Basic Re	55
UNIVERSITY OF FLORIDA	Florida	ARMY USAF OCE	RDTE/Other Research & Development-Basic Re	904
	STATE TOTAL			265
UNIVERSITY OF GEORGIA	Georgia	ARMY OCE	RDTE/Other Research & Development-Basic Re	421
	STATE TOTAL			751
UNIVERSITY OF HOUSTON SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	231
UNIVERSITY OF ILLINOIS	Illinois	ARMY NAVY USAF	RDTE/Other Research & Development-Basic Re	50
	STATE TOTAL			164
UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Research & Development-Basic Re	445
UNIVERSITY OF KANSAS	Kansas	ARMY	RDTE/Other Research & Development-Basic Re	35
UNIVERSITY OF MARYLAND	Maryland	ARMY NAVY	RDTE/Other Research & Development-Basic Re	43
	STATE TOTAL			78
UNIVERSITY OF MASSACHUSETTS	Mass	ARMY NAVY	RDTE/Other Research & Development-Basic Re	206
	STATE TOTAL			2,391
				240
				109
				2,740
				120
				188
				1,226
				282
				1,508
				352
				95

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ11 (CONTINUED)					
	UNIVERSITY OF MEDICINE	New Jersey	ARMY	RDTE/Other Research & Development-Basic Re	447
	UNIVERSITY OF MIAMI INC	Florida	ARMY	RDTE/Other Research & Development-Basic Re	50
	UNIVERSITY OF MICHIGAN	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	110
	UNIVERSITY OF MINNESOTA	Minnesota	ARMY	RDTE/Other Research & Development-Basic Re	3,221
			OCE	RDTE/Other Research & Development-Basic Re	419
				RDTE/Other Research & Development-Basic Re	30
			STATE TOTAL		449
	UNIVERSITY OF MISSISSIPPI	Miss	ARMY	RDTE/Other Research & Development-Basic Re	44-
	UNIVERSITY OF MISSOURI	Missouri	ARMY	RDTE/Other Research & Development-Basic Re	270
			NAVY	RDTE/Other Research & Development-Basic Re	50
			STATE TOTAL		320
	UNIVERSITY OF NEBRASKA	Nebraska	ARMY	RDTE/Other Research & Development-Basic Re	137
	UNIVERSITY OF OREGON	Oregon	ARMY	RDTE/Other Research & Development-Basic Re	158
	UNIVERSITY OF PENNSYLVANIA	Penn	ARMY	RDTE/Other Research & Development-Basic Re	1,660
	UNIVERSITY OF PITTSBURGH	Penn	ARMY	RDTE/Other Research & Development-Basic Re	155
			USAF	RDTE/Other Research & Development-Basic Re	76
			STATE TOTAL		231
	UNIVERSITY OF RHODE ISLAND	Rhode Isl	ARMY	RDTE/Other Research & Development-Basic Re	29
	UNIVERSITY OF ROCHESTER	New York	ARMY	RDTE/Other Research & Development-Basic Re	1,901
	UNIVERSITY OF SOUTH CAROLINA	S Carolina	ARMY	RDTE/Other Research & Development-Basic Re	120
	UNIVERSITY OF SOUTHERN MISSISS	Miss	ARMY	RDTE/Other Research & Development-Basic Re	69
	UNIVERSITY OF STHERN CLFORNIA	California	ARMY	RDTE/Other Research & Development-Basic Re	5,097
			NAVY	RDTE/Other Research & Development-Basic Re	50
			USAF	RDTE/Other Research & Development-Basic Re	350
			STATE TOTAL		5,497
	UNIVERSITY OF STRATCLYDE	UNITED KIN	ARMY	RDTE/Other Research & Development-Basic Re	33

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ11 (CONTINUED)					
	UNIVERSITY OF TEXAS ARLINGTON	Texas	ARMY	RDTE/Other Research & Development-Basic Re	\$ 100
	UNIVERSITY OF TEXAS AT DALLAS	Texas	ARMY	RDTE/Other Research & Development-Basic Re	180
			NAVY	RDTE/Other Research & Development-Basic Re	360
					540
				STATE TOTAL	
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Basic Re	368
	UNIVERSITY OF UTAH	Utah	ARMY	RDTE/Other Research & Development-Basic Re	207
	UNIVERSITY OF VIENNA	AUSTRIA	ARMY	RDTE/Other Research & Development-Basic Re	30
	UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	257
	UNIVERSITY OF WASHINGTON	Washington	ARMY	RDTE/Other Research & Development-Basic Re	110
	UNIVERSITY OF WISCONSIN SYSTEM	Wisconsin	ARMY	RDTE/Other Research & Development-Basic Re	1,690
	UNIVERSITY OF WYOMING	Wyoming	ARMY	RDTE/Other Research & Development-Basic Re	76
	UNIVERSITY RES FOUNDATION	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	2,669
	VANDERBILT UNIVERSITY THE	Tennessee	ARMY	RDTE/Other Research & Development-Basic Re	114
	VIRGINIA PLYTHNIC INST/ST UNI	Virginia	ARMY	RDTE/Other Research & Development-Basic Re	226
			OCE	RDTE/Other Research & Development-Basic Re	124
				STATE TOTAL	350
	VISTA RESEARCH	California	ARMY	RDTE/Other Research & Development-Basic Re	58
	WADDAN SYSTEMS	California	NAVY	RDTE/Other Research & Development-Basic Re	226
	WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Basic Re	75
	WASHINGTON UNIVERSITY	Missouri	OCE	RDTE/Other Research & Development-Basic Re	44
	WAYNE STATE UNIVERSITY	Michigan	ARMY	RDTE/Other Research & Development-Basic Re	286
	WEIDLINGER ASSOCIATES INC	New York	ARMY	RDTE/Other Research & Development-Basic Re	263
	WESTAT INC	Maryland	ARMY	RDTE/Other Research & Development-Basic Re	95
	WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Basic Re	120
			USAF	RDTE/Other Research & Development-Basic Re	650

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
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AZ11 (CONTINUED)

CONTRACTOR TOTAL		STATE TOTAL		
		ARMY	NAVY	
WICKERSHEIMER ENGINEERS	Illinois	RDTE/Other Research & Development-Basic Re		770
WORCESTER PLYTHNIC INSTITUTE	Mass	RDTE/Other Research & Development-Basic Re		240
YALE UNIVERSITY	Conn	RDTE/Other Research & Development-Basic Re		65
ZERNOW TECHNICAL SERVICES INC	California	RDTE/Other Research & Development-Basic Re		305
ZYBRON INC	Ohio	RDTE/Other Research & Development-Basic Re		1,075
R&D TOTAL				120
AZ12 A A I CORPORATION	Maryland	RDTE/Other Research & Development-Explor D		90
A T S S INC	California	RDTE/Other Research & Development-Explor D		185
ACCSYS TECHNOLOGY INC	California	RDTE/Other Research & Development-Explor D		118
ADVANCED DECISION SYSTEMS	California	RDTE/Other Research & Development-Explor D		100
ADVANCED PROGRAMMING CONCEPTS	Texas	RDTE/Other Research & Development-Explor D		225,841
ADVANCED TECHNOLOGY & RESEARCH	Maryland	RDTE/Other Research & Development-Explor D		86
ADVANCED TECHNOLOGY INC	California	RDTE/Other Research & Development-Explor D		47
CONTRACTOR TOTAL	Virginia	RDTE/Other Research & Development-Explor D		1,031
ADVANCED TECHNOLOGY MATERIALS	Conn	RDTE/Other Research & Development-Explor D		225
AERODYNE RESEARCH INC	Mass	RDTE/Other Research & Development-Explor D		42
AEROVIRONMENT INC	California	RDTE/Other Research & Development-Explor D		102
ALLIED SIGNAL AEROSPACE CO	Arizona	RDTE/Other Research & Development-Explor D		75
				142
				217
				202
				748
				248
				446

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION		
AZ12 (CONTINUED)						
	AMOCO CHEMICAL COMPANY	Conn	NAVY	RDTE/Other Research & Development-Explor D	\$	70
						516
	CONTRACTOR TOTAL					1,700
	APPLIED RESEARCH ASSOC INC	N Carolina	ARMY	RDTE/Other Research & Development-Explor D		341
	APPLIED RESEARCH LABORATORY	D.C.	NAVY	RDTE/Other Research & Development-Explor D		920
		Virginia	NAVY	RDTE/Other Research & Development-Explor D		823
	CONTRACTOR TOTAL					1,743
	APPLIED SCIENCES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D		96
	APPLIED TECHNOLOGY ASSOCIATES	New Mexico	ARMY	RDTE/Other Research & Development-Explor D		255
	APTEK INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D		100
	ARCHITECTURAL ENERGY CORP	Colorado	ARMY	RDTE/Other Research & Development-Explor D		50
	ARIZONA STATE UNIVERSITY	Arizona	NAVY	RDTE/Other Research & Development-Explor D		38
	ARROW TECH ASSOCIATES	Vermont	USAF	RDTE/Other Research & Development-Explor D		240
	ASI SYSTEMS INTERNATIONAL	Florida	USAF	RDTE/Other Research & Development-Explor D		2,592
		Maryland	ARMY	RDTE/Other Research & Development-Explor D		37
	CONTRACTOR TOTAL					2,629
	AT&T TECHNOLOGIES INC	N Carolina	NAVY	RDTE/Other Research & Development-Explor D		197
	ATACS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D		193
	AXEL ELECTRONICS INC DEL	New York	USAF	RDTE/Other Research & Development-Explor D		117
	BABCOCK & WILCOX COMPANY THE	Ohio	NAVY	RDTE/Other Research & Development-Explor D		537
	BALL CORPORATION	Colorado	NAVY	RDTE/Other Research & Development-Explor D		595
	BATTELLE DEVELOPMENT CORP	Ohio	NAVY	RDTE/Other Research & Development-Explor D		80

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	DESCRIPTION	
AZ12 (CONTINUED)					
	BATTELLE MEMORIAL INSTITUTE	Ohio	ARMY	RDTE/Other Research & Development-Explor D	\$ 278
	BBN SYSTEMS & TECHNOLOGIES	Mass	ARMY	RDTE/Other Research & Development-Explor D	1,024
	BDM INTERNATIONAL INC	Virginia	ARMY USAF	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	5,589 302
	STATE TOTAL				5,891
	BIONETICS CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	50
	BLANCHARD & CO	Maryland	ARMY	RDTE/Other Research & Development-Explor D	50
	BOEING AEROSPACE & ELECTRONICS	Washington	ARMY	RDTE/Other Research & Development-Explor D	75
	BOEING COMPANY THE	Washington	NAVY	RDTE/Other Research & Development-Explor D	358
	BOLT BERANEK & NEWMAN INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	708
	BOOZ ALLEN & HAMILTON INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	40
	BRTRC INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	48
	C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Explor D	145
	CALIFORNIA RES & TECHNOLOGY	California	NAVY	RDTE/Other Research & Development-Explor D	744
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	50
	CARNEGIE MELLON UNIVERSITY	Penn	ARMY	RDTE/Other Research & Development-Explor D	1,185
	CARTER ANALYTICAL LABORATORY	California	ARMY	RDTE/Other Research & Development-Explor D	81
	CERADYNE INC	California	ARMY	RDTE/Other Research & Development-Explor D	99
	CHARLES SYSTEMS CORP	Michigan	ARMY	RDTE/Other Research & Development-Explor D	50
	COLUMBIA UNIVERSITY	New York	USAF	RDTE/Other Research & Development-Explor D	240
	COMMONWEALTH TECHNOLOGY INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	1,036
	CONTROL DATA CORPORATION	Minnesota	USAF	RDTE/Other Research & Development-Explor D	270
	CREATIVE OPTICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	498
	CTA INCORPORATED	Maryland	NAVY	RDTE/Other Research & Development-Explor D	63

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ12 (CONTINUED)					
	DAUBIN SYSTEMS CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Explor D	\$ 175
	DBA SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	90
	DECISIONS & DESIGNS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	50
	DEFENSE SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	559
	DETROIT DIESEL CORP	Michigan	NAVY	RDTE/Other Research & Development-Explor D	500
	DEVANEY A J ASSOC	Mass	NAVY	RDTE/Other Research & Development-Explor D	497
	DIESELDYNE CORP	New York	NAVY	RDTE/Other Research & Development-Explor D	49
	DIGITAL SIGNAL CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Explor D	150
	DIGITAL WIZARDS INC	California	NAVY	RDTE/Other Research & Development-Explor D	734
	DIRECTED TECHNOLOGIES INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	200
	DISPLAYTECH INC	Colorado	NAVY	RDTE/Other Research & Development-Explor D	56
	DOW CORNING CORPORATION	Michigan	NAVY	RDTE/Other Research & Development-Explor D	49
	DRAPER CHARLES STARK LAB INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	267
	DUAL & ASSOCIATES INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	75
	DUKE UNIVERSITY	N Carolina	USAF	RDTE/Other Research & Development-Explor D	68
	DYNAMICS RESEARCH CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D	890
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	38
	EASTMAN KODAK COMPANY	California	NAVY	RDTE/Other Research & Development-Explor D	35
	EASTPORT INTERNATIONAL INC	California	NAVY	RDTE/Other Research & Development-Explor D	869
	EATON CORPORATION	New York	NAVY	RDTE/Other Research & Development-Explor D	100
			USAF	RDTE/Other Research & Development-Explor D	300
	STATE TOTAL				400
	EDO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	395
	ELECTRO OPTEK CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	665

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	ELECTRONIC WARFARE ASSOCIATES	Virginia	NAVY	RDTE/Other Research & Development-Explor D	48
	ENERGY COMPRESSION RES CORP	California	ARMY	RDTE/Other Research & Development-Explor D	50
	ENIG ASSOCIATES INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	97
	ENTECHNOLOGY INC	Tennessee	ARMY	RDTE/Other Research & Development-Explor D	49
	ESL INCORPORATED	California	NAVY	RDTE/Other Research & Development-Explor D	242
	FAILURE ANALYSIS ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	282
	FAIRCHILD INDUSTRIES INC	D.C.	NAVY	RDTE/Other Research & Development-Explor D	255
	FIBER MATERIALS INC	Maine	NAVY	RDTE/Other Research & Development-Explor D	194
	FLOW INDUSTRIES INC	Washington	ARMY	RDTE/Other Research & Development-Explor D	152
	FORD AEROSPACE CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	98
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	106
		NAVY	NAVY	RDTE/Other Research & Development-Explor D	762
				STATE TOTAL	868
	GENERAL ATOMICS	California	NAVY	RDTE/Other Research & Development-Explor D	684
	GENERAL DYNAMICS CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	638
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Explor D	1,740
		New Jersey	ARMY	RDTE/Other Research & Development-Explor D	225
		New York	NAVY	RDTE/Other Research & Development-Explor D	30
				CONTRACTOR TOTAL	1,995
	GENERAL MOTORS CORPORATION	Indiana	NAVY	RDTE/Other Research & Development-Explor D	137
	GEO CENTERS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	1,648
	GEORGIA TECH RESEARCH CORP	Georgia	ARMY	RDTE/Other Research & Development-Explor D	1,346
	GLOBAL DEFENSE PRODUCTS	New York	NAVY	RDTE/Other Research & Development-Explor D	48
	GOLDSWORTHY ENGINEERING INC	California	ARMY	RDTE/Other Research & Development-Explor D	76

PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	GORHAM ADVANCED MATERIALS INST	Maine	NAVY	RDTE/Other Research & Development-Explor D	50
	GRADIENT LENS CORPORATION	New York	ARMY	RDTE/Other Research & Development-Explor D	50
	GUILD ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	215
	GUMBS ASSOCIATES INC	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	154
	H R TEXTRON INC	California	ARMY	RDTE/Other Research & Development-Explor D	708
	HANNIGAN CONSTRUCTION CO	Virginia	NAVY	RDTE/Other Research & Development-Explor D	517
	HERCULES INCORPORATED	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	50
	HODGES TRANSPORTATION INC	Nevada	ARMY	RDTE/Other Research & Development-Explor D	150
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Explor D	120
		Penn	NAVY	RDTE/Other Research & Development-Explor D	345
	CONTRACTOR TOTAL				465
	HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	50
	HUDSON INSTITUTE INC	Indiana	ARMY	RDTE/Other Research & Development-Explor D	490
	HUGHES AIRCRAFT COMPANY	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	195 300
		STATE TOTAL			495
	I A P RESEARCH INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	491
	I I T RESEARCH INSTITUTE	Illinois	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	147 76
		STATE TOTAL			223
	I S T INC	Washington	NAVY	RDTE/Other Research & Development-Explor D	227
	INDUSTRIAL QUALITY INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	150
	INSTITUTE OF GAS TECHNOLOGY	Illinois	ARMY	RDTE/Other Research & Development-Explor D	140
	INTEGRATED SYS RES CORPORATION	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	546
	INTELLIGENT AUTOMATION INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	244

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	IOWA STATE UNIV SONC	Iowa	ARMY	RDTE/Other Research & Development-Explor D	\$ 180
	KAISER AEROSPACE & ELEC CORP	California	NAVY	RDTE/Other Research & Development-Explor D	264
	KAISER OPTICAL SYSTEMS INC	Michigan	NAVY	RDTE/Other Research & Development-Explor D	99
	KAMAN AEROSPACE CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Explor D	157
	KAMAN SCIENCES CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Explor D	50
	KDC ISI JOINT VENTURE	California	NAVY	RDTE/Other Research & Development-Explor D	224
	KEO CONSULTANTS	Mass	USAF	RDTE/Other Research & Development-Explor D	167
	KURZ & ROOT COMPANY	Wisconsin	ARMY	RDTE/Other Research & Development-Explor D	89
	L B & M ASSOCIATES INC	Oklahoma	ARMY	RDTE/Other Research & Development-Explor D	620
	LANXIDE CORP	Delaware	NAVY	RDTE/Other Research & Development-Explor D	396
	LIFTEX INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	65
	LITTON ITEK OPTICAL SYSTEMS	Mass	NAVY	RDTE/Other Research & Development-Explor D	39
	LITTON SYSTEMS INC	Florida	ARMY	RDTE/Other Research & Development-Explor D	422
	LOCKHEED TECHNICAL SERVICES CO	California	NAVY	RDTE/Other Research & Development-Explor D	1,012
		Texas	ARMY	RDTE/Other Research & Development-Explor D	239
	CONTRACTOR TOTAL				1,251
	LOGISTICS MANAGEMENT ENGRG	Penn	ARMY	RDTE/Other Research & Development-Explor D	143
	LONE PEAK ENGINEERING INC	Utah	NAVY	RDTE/Other Research & Development-Explor D	392
	LORAL CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	100
	MACH I INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	423
	MAGNAVOX GOVT & INDSTR ELCTR	New Jersey	ARMY	RDTE/Other Research & Development-Explor D	576
	MANTECH INTERNATIONAL CORP	Virginia	NAVY	RDTE/Other Research & Development-Explor D	39
	MARCONI CO LTD	UNITED KIN	NAVY	RDTE/Other Research & Development-Explor D	50
	MARTIN MARIETTA CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	100

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
			NAVY	RDTE/Other Research & Development-Explor D	\$ 262
		STATE TOTAL			362
	MASSACHSTTS INST OF TECHNOLOGY	Mass	ARMY	RDTE/Other Research & Development-Explor D	115
	MATERIAL & ELECTROCHEMICAL RES	Arizona	USAF	RDTE/Other Research & Development-Explor D	499
	MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D	417
	MCDONNELL DOUGLAS CORPORATION	Missouri	NAVY	RDTE/Other Research & Development-Explor D	27
			USAF	RDTE/Other Research & Development-Explor D	1,252
		STATE TOTAL			1,279
	MCDONNELL DOUGLAS HLCPTR CO	Arizona	ARMY	RDTE/Other Research & Development-Explor D	4,121
	MEASUREMENT TECHNOLOGY NW	Washington	ARMY	RDTE/Other Research & Development-Explor D	50
	METRICA INC	Texas	USAF	RDTE/Other Research & Development-Explor D	84
	METRON INC	California	NAVY	RDTE/Other Research & Development-Explor D	191
	MICRO ANALYSIS AND DESIGN INC	Colorado	ARMY	RDTE/Other Research & Development-Explor D	235
	MICRO SENSOR SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	167
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	984
	MISSION RESEARCH CORPORATION	California	ARMY	RDTE/Other Research & Development-Explor D	50
			NAVY	RDTE/Other Research & Development-Explor D	200
		STATE TOTAL			250
		New Mexico	NAVY	RDTE/Other Research & Development-Explor D	50
	CONTRACTOR TOTAL				300
	MSNW INC	California	NAVY	RDTE/Other Research & Development-Explor D	346
	N K F ENGINEERING INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	172
	NATIONAL ACADEMY SCIENCES USA	D.C.	ARMY	RDTE/Other Research & Development-Explor D	389
	NATIONAL CNCL ON RADTN PRCTN	Maryland	NAVY	RDTE/Other Research & Development-Explor D	35
	NEAL RESEARCH ASSOC INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	50

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	NEW ENGLAND RESEARCH INC	Vermont	USAF	RDTE/Other Research & Development-Explor D	208
	NEW HORIZONS DIAGNOSTICS CORP	Maryland	ARMY	RDTE/Other Research & Development-Explor D	50
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	50
	NEW MXICO INST OF MIN TCHNLGY	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	51
	NORTH CAROLINA STATE UNIV	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	65
	OKLAHOMA STATE UNIVERSITY	Oklahoma	USAF	RDTE/Other Research & Development-Explor D	240
	OLIN CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Explor D	400
	OMNICON CORP	California	NAVY	RDTE/Other Research & Development-Explor D	337
	OPTIMETRICS INC	Michigan	ARMY	RDTE/Other Research & Development-Explor D	40
		Virginia	ARMY	RDTE/Other Research & Development-Explor D	1,071
	CONTRACTOR TOTAL				1,111
	OPTRA INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	47
	OPTRON SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	497
	OREGON STATE UNIVERSITY	Oregon	USAF	RDTE/Other Research & Development-Explor D	110
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Explor D	1,142
	PACIFIC SIERRA RESEARCH CORP	California	NAVY	RDTE/Other Research & Development-Explor D	285
	PARKE MATHEMATICAL LABS INC	Mass	USAF	RDTE/Other Research & Development-Explor D	269
	PENNSYLVANIA STATE UNIV INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	48
	PERKIN ELMER CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Explor D	3,850
	PHOTO METRIC INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	77
			USAF	RDTE/Other Research & Development-Explor D	448
	STATE TOTAL				525
	PHOTON RESEARCH ASSOCIATES	California	NAVY	RDTE/Other Research & Development-Explor D	3,037
	PHOTONICS SYSTEMS INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ12 (CONTINUED)					
	PHYSICS INTERNATIONAL COMPANY	California	NAVY	RDTE/Other Research & Development-Explor D	\$ 105
	PIASECKI AIRCRAFT CORP	Penn	NAVY	RDTE/Other Research & Development-Explor D	1,585
	POTOMAC RESEARCH INCORPORATED	Virginia	NAVY	RDTE/Other Research & Development-Explor D	190
	POWERTRONIC SYSTEMS INC	Louisiana	NAVY	RDTE/Other Research & Development-Explor D	200
	PRINCETON ECONOMICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	61
	PROCESSING RESEARCH INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	54
	PROTOTYPE INC	California	ARMY	RDTE/Other Research & Development-Explor D	50
	PURDUE UNIVERSITY	Indiana	ARMY	RDTE/Other Research & Development-Explor D	32
	QUANTEX CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	158
	QUANTIC INDUSTRIES INC	California	NAVY	RDTE/Other Research & Development-Explor D	459
	QUANTUM RESEARCH SERVICES INC	N Carolina	NAVY	RDTE/Other Research & Development-Explor D	55
	R D P INC	Mass	USAF	RDTE/Other Research & Development-Explor D	40
	RADEX INC	Mass	USAF	RDTE/Other Research & Development-Explor D	1,201
	RADIX SYSTEMS INC	Maryland	NAVY	RDTE/Other Research & Development-Explor D	140
	REID ROBERT	Georgia	ARMY	RDTE/Other Research & Development-Explor D	81
	ROCKET RESEARCH CO	Washington	ARMY	RDTE/Other Research & Development-Explor D	57
	ROCKWELL INTERNATIONAL CORP	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	55 100
	STATE TOTAL				155
	RUSSELLS TECHNICAL PRODUCTS	Michigan	ARMY	RDTE/Other Research & Development-Explor D	174
	RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Explor D	64
	S T SYSTEMS CORPORATION	D.C.	NAVY	RDTE/Other Research & Development-Explor D	100
	SARA SYSTEMS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	44
	SATCON TECHNOLOGY CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Explor D	487

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	SCHMIDT & ASSOCIATES INC	Ohio	ARMY	RDTE/Other Research & Development-Explor D	275
	SCIENCE & ENGINEERING ASSOC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	85
	SCIENCE & TECHNOLOGY CORP	Virginia	ARMY	RDTE/Other Research & Development-Explor D	1,214
	SCIENCE APPLICATIONS INTL CORP	California	NAVY	RDTE/Other Research & Development-Explor D	1,483
	SCIENCE RESEARCH LABORATORY	California	NAVY	RDTE/Other Research & Development-Explor D	778
		Mass	NAVY	RDTE/Other Research & Development-Explor D	330
	CONTRACTOR TOTAL				1,108
	SENTIENT SYSTEMS TECHNOLOGY	Penn	NAVY	RDTE/Other Research & Development-Explor D	218
	SIKOG INC	California	NAVY	RDTE/Other Research & Development-Explor D	101
	SILHOUETTE TECHNOLOGY INC	New Jersey	NAVY	RDTE/Other Research & Development-Explor D	481
	SILICON FILMS CORP	California	USAF	RDTE/Other Research & Development-Explor D	50
	SOCIETY OF AUTO ENGINEERS	Penn	ARMY	RDTE/Other Research & Development-Explor D	147
	SOCIOMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Explor D	230
	SOLOHILL ENGINEERING INC	Michigan	NAVY	RDTE/Other Research & Development-Explor D	52
	SOUTH DAKOTA STATE OF	S Dakota	ARMY	RDTE/Other Research & Development-Explor D	30
	SOUTHERN RESEARCH INSTITUTE	Alabama	NAVY	RDTE/Other Research & Development-Explor D	230
	SOUTHWEST RESEARCH INSTITUTE	Texas	NAVY	RDTE/Other Research & Development-Explor D	813
			USAF	RDTE/Other Research & Development-Explor D	230
	STATE TOTAL				1,043
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Explor D	100
			NAVY	RDTE/Other Research & Development-Explor D	65
	STATE TOTAL				165
	SPECTRAL INNOVATIONS	California	NAVY	RDTE/Other Research & Development-Explor D	67
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Research & Development-Explor D	81
	STATE UNIVERSITY OF NEW YORK	New York	NAVY	RDTE/Other Research & Development-Explor D	200

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ12 (CONTINUED)					
	SUNDSTRAND DATA CONTROL INC	Washington	USAF	RDTE/Other Research & Development-Explor D	343
	SUPERCONDUCTOR TECHNOLOGIES	California	NAVY	RDTE/Other Research & Development-Explor D	167
	SYMBIOTECH INCORPORATED	Conn	ARMY	RDTE/Other Research & Development-Explor D	265
	SYNTECH MATERIALS INC	Virginia	NAVY	RDTE/Other Research & Development-Explor D	243
	SYSTEMS & PROCESSES ENGRG CORP	Texas	ARMY	RDTE/Other Research & Development-Explor D	258
	TALLEY DEFENSE SYSTEMS INC	Arizona	ARMY	RDTE/Other Research & Development-Explor D	706
	TECHNICAL SOLUTIONS INC	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	383
	TECHNOLOGY INTERNATIONAL INC	Louisiana	ARMY	RDTE/Other Research & Development-Explor D	94
	TETRA CORPORATION	New Mexico	ARMY	RDTE/Other Research & Development-Explor D	56
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Research & Development-Explor D	223
	TEXAS RESEARCH INTERNATIONAL	Texas	NAVY	RDTE/Other Research & Development-Explor D	98
	THE ANALYTIC SCIENCE CORP	Mass	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	326 239
	STATE TOTAL				565
	THERMEDICS INC	Mass	ARMY	RDTE/Other Research & Development-Explor D	500
	THIOKOL CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Explor D	80
	TRACER TECHNOLOGIES INC	Mass	NAVY	RDTE/Other Research & Development-Explor D	215
	TRACOR AEROSPACE INC	California	NAVY	RDTE/Other Research & Development-Explor D	90
	TRACOR APPLIED SCIENCES INC	Texas	NAVY	RDTE/Other Research & Development-Explor D	700
	TRW INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	700
	ULTROX INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Explor D	151
	UNITED TECHNOLOGIES CORP	Conn	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	1,333 56
	STATE TOTAL				1,389
	UNIVERSITY NC AT CHAPEL HL	N Carolina	ARMY	RDTE/Other Research & Development-Explor D	395

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	

AZ12 (CONTINUED)					
	UNIVERSITY OF CALIFORNIA	California	ARMY NAVY	RDTE/Other Research & Development-Explor D RDTE/Other Research & Development-Explor D	\$ 67 30
	STATE TOTAL				
	UNIVERSITY OF CINCINNATI	Ohio	ARMY	RDTE/Other Research & Development-Explor D	97
	UNIVERSITY OF ILLINOIS	Illinois	ARMY	RDTE/Other Research & Development-Explor D	51
	UNIVERSITY OF LOWELL	Mass	ARMY	RDTE/Other Research & Development-Explor D	2,950
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Explor D	32
	UNIVERSITY OF MASSACHUSETTS	Mass	ARMY	RDTE/Other Research & Development-Explor D	139
	UNIVERSITY OF PITTSBURGH	Penn	USAF	RDTE/Other Research & Development-Explor D	630
	UNIVERSITY OF TENNESSEE	Tennessee	ARMY	RDTE/Other Research & Development-Explor D	50
	VECTORVISION CORPORATION	Minnesota	ARMY	RDTE/Other Research & Development-Explor D	300
	VERSAR INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	140
	VIASAT INC	California	NAVY	RDTE/Other Research & Development-Explor D	245
	VITEL INC	Virginia	ARMY	RDTE/Other Research & Development-Explor D	78
	WAGNER DANIEL H ASSOCIATES	Virginia	NAVY	RDTE/Other Research & Development-Explor D	368
	WASHINGTON STATE UNIVERSITY	Washington	NAVY	RDTE/Other Research & Development-Explor D	40
	WASHINGTON UNIVERSITY	Missouri	USAF	RDTE/Other Research & Development-Explor D	84
	WENTWORTH INST OF TECHNOLOGY	Mass	NAVY	RDTE/Other Research & Development-Explor D	506
	WESTINGHOUSE ELECTRIC CORP	Maryland	USAF	RDTE/Other Research & Development-Explor D	501
	WESTON ROY F INC	Penn	ARMY	RDTE/Other Research & Development-Explor D	180
	WOODWARD CLYDE CONSULTANTS	Colorado	ARMY	RDTE/Other Research & Development-Explor D	225
	WRIGHT STATE UNIVERSITY	Ohio	USAF	RDTE/Other Research & Development-Explor D	162
	WYLE LABORATORIES	California	USAF	RDTE/Other Research & Development-Explor D	190
	XI MAGNETICS INC	Penn	NAVY	RDTE/Other Research & Development-Explor D	398

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
	R&D TOTAL				102,902
AZ13	A A I CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Advanced	751
	ADVANCED COMPOSITE PRODUCTS	Conn	ARMY	RDTE/Other Research & Development-Advanced	220
	ADVANCED OPTICAK SYS	Alabama	NAVY	RDTE/Other Research & Development-Advanced	50
	ADVANCED PROCESSING LABS	California	NAVY	RDTE/Other Research & Development-Advanced	991
	AIL RESEARCH	New Jersey	NAVY	RDTE/Other Research & Development-Advanced	49
	AKMAN ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	455
	AMPARO CORPORATION	New Mexico	USAF	RDTE/Other Research & Development-Advanced	272
	AMPTK INC	Mass	USAF	RDTE/Other Research & Development-Advanced	50
	ANACAPA SCIENCES INC	California	NAVY	RDTE/Other Research & Development-Advanced	112
	ATMOSPHERIC ENVIRONMENTAL RES	Mass	USAF	RDTE/Other Research & Development-Advanced	205
	AVCO CORPORATION	Conn	ARMY	RDTE/Other Research & Development-Advanced	86
	BABCOCK & WILCOX COMPANY THE	Ohio	NAVY	RDTE/Other Research & Development-Advanced	706
	BAKER WILFRED ENGINEERING	Texas	USAF	RDTE/Other Research & Development-Advanced	260
	BALL CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	527
	BAND LAVIS & ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Advanced	99
	BARR ASSOCIATES INCORPORATED	Mass	ARMY	RDTE/Other Research & Development-Advanced	113
	BDM INTERNATIONAL INC	Virginia	USAF	RDTE/Other Research & Development-Advanced	3,223
	BELL HELICOPTER TEXTRON INC	Texas	ARMY	RDTE/Other Research & Development-Advanced	207
	BRINTEC CORPORATION	Conn	NAVY	RDTE/Other Research & Development-Advanced	75
	BROWN DAYTON T INC	New York	NAVY	RDTE/Other Research & Development-Advanced	60
	C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Advanced	100
	C V D INCORPORATED	Mass	USAF	RDTE/Other Research & Development-Advanced	616
	CANADIAN COMMERCIAL CORPORATI	CANADA	ARMY	RDTE/Other Research & Development-Advanced	8,225
	CARNEGIE MELLON UNIVERSITY	Penn	USAF	RDTE/Other Research & Development-Advanced	37,164

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ13 (CONTINUED)					
	CEMCOM CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Advanced	\$ 98
	CERMAK PETERKA & PETERSEN	Colorado	USAF	RDTE/Other Research & Development-Advanced	48
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Advanced	809
	CORNING INC	New York	USAF	RDTE/Other Research & Development-Advanced	1,569
	DYNAMICS RESEARCH CORPORATION	Kentucky	ARMY	RDTE/Other Research & Development-Advanced	690
		Mass	ARMY	RDTE/Other Research & Development-Advanced	51
	CONTRACTOR TOTAL				741
	FABEL SYS CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	3,108
	FIBER MATERIALS INC	Arkansas	ARMY	RDTE/Other Research & Development-Advanced	59
	FIMOD CORP	Virginia	ARMY	RDTE/Other Research & Development-Advanced	46
	FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Advanced	459
			NAVY	RDTE/Other Research & Development-Advanced	55
			USAF	RDTE/Other Research & Development-Advanced	108
	STATE TOTAL				622
	GENERAL ATOMICS	California	ARMY	RDTE/Other Research & Development-Advanced	1,554
	GENERAL DYNAMICS CORPORATION	California	USAF	RDTE/Other Research & Development-Advanced	1,099
	GENERAL ELECTRIC COMPANY	Mass	ARMY	RDTE/Other Research & Development-Advanced	378
	GEO CENTERS INC	D.C.	NAVY	RDTE/Other Research & Development-Advanced	647
		Mass	NAVY	RDTE/Other Research & Development-Advanced	50
	CONTRACTOR TOTAL				697
	GEORGIA TECH RESEARCH CORP	Georgia	NAVY	RDTE/Other Research & Development-Advanced	579
	GRUMMAN AEROSPACE CORPORATION	New York	ARMY	RDTE/Other Research & Development-Advanced	502
	HONEYWELL INC	Minnesota	NAVY	RDTE/Other Research & Development-Advanced	190
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Advanced	130
	HUMAN RSRCES RES ORGANIZATION	Kentucky	ARMY	RDTE/Other Research & Development-Advanced	350

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	-R&D DESCRIPTION-	
AZ13 (CONTINUED)					
I I T RESEARCH INSTITUTE		Illinois	ARMY	RDTE/Other Research & Development-Advanced	\$ 129
I S T INC		Washington	NAVY	RDTE/Other Research & Development-Advanced	121
INDUSTRIAL QUALITY INC		Maryland	NAVY	RDTE/Other Research & Development-Advanced	354
INFORMATION RESEARCH LAB INC		Mass	ARMY	RDTE/Other Research & Development-Advanced	36
INTERNATIONAL BUS MCHS CORP		New York	NAVY	RDTE/Other Research & Development-Advanced	3,342
ITT CORPORATION		New Jersey	USAF	RDTE/Other Research & Development-Advanced	275
JAYCOR		Virginia	ARMY	RDTE/Other Research & Development-Advanced	27
KDI PRECISION PRODUCTS INC		Ohio	ARMY	RDTE/Other Research & Development-Advanced	1,360
LOCKHEED CORPORATION		California	USAF	RDTE/Other Research & Development-Advanced	803
LOCKHEED TECHNICAL SERVICES CO		Alabama	USAF	RDTE/Other Research & Development-Advanced	1,500
		California	USAF	RDTE/Other Research & Development-Advanced	1,023
		Texas	ARMY	RDTE/Other Research & Development-Advanced	163
CONTRACTOR TOTAL					2,686
LORAL CORPORATION		California	NAVY	RDTE/Other Research & Development-Advanced	295
MARTIN MARIETTA CORPORATION		Florida	ARMY NAVY	RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced	110 150
MASSACHSTTS INST OF TECHNOLOGY		STATE TOTAL			260
		Mass	NAVY USAF	RDTE/Other Research & Development-Advanced RDTE/Other Research & Development-Advanced	37 432,359
		STATE TOTAL			432,396
MCDONNELL DOUGLAS HLCPTR CO		Arizona	ARMY	RDTE/Other Research & Development-Advanced	173
MICRO ANALYSIS AND DESIGN INC		Kentucky	ARMY	RDTE/Other Research & Development-Advanced	300
MIRAGE SYSTEMS		Virginia	ARMY	RDTE/Other Research & Development-Advanced	900
MISSION RESEARCH CORPORATION		California	NAVY	RDTE/Other Research & Development-Advanced	668
MODULAR COMPONENTS NATIONAL		Maryland	USAF	RDTE/Other Research & Development-Advanced	65

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	DAO CORP GREENBELT MD 20770	Maryland	NAVY	RDTE/Other Research & Development-Advanced	642
	OLIN CORPORATION	Tennessee	ARMY	RDTE/Other Research & Development-Advanced	3,275
	ONLINE PRODUCTS CORP	Virginia	ARMY	RDTE/Other Research & Development-Advanced	82
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Advanced	2,658
	PARKER KINETIC DESIGN INC	Florida	USAF	RDTE/Other Research & Development-Advanced	100
	PATHFINDER SOFTWARE INC	Colorado	NAVY	RDTE/Other Research & Development-Advanced	235
	QUANTUM DESIGN INC	California	NAVY	RDTE/Other Research & Development-Advanced	494
	RAYTHEON COMPANY	Mass	USAF	RDTE/Other Research & Development-Advanced	291
	RAYTHEON SERVICE COMPANY	New Mexico	ARMY	RDTE/Other Research & Development-Advanced	140
	RENSSELAER POLYTECHNIC INST	New York	ARMY	RDTE/Other Research & Development-Advanced	96
	RGI INC	California	NAVY	RDTE/Other Research & Development-Advanced	6,831
	ROCKWELL POWER SYSTEMS	New Mexico	USAF	RDTE/Other Research & Development-Advanced	130
	S F A INC	D.C.	NAVY	RDTE/Other Research & Development-Advanced	1,354
	S T SYSTEMS CORPORATION	D.C.	USAF	RDTE/Other Research & Development-Advanced	185
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Advanced	94
	SOUTHWEST RESEARCH INSTITUTE	Texas	ARMY	RDTE/Other Research & Development-Advanced	132
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Advanced	255
	SPIRE CORPORATION	Mass	NAVY	RDTE/Other Research & Development-Advanced	103
	SRI INTERNATIONAL	California	NAVY	RDTE/Other Research & Development-Advanced	981
	SULLIVAN ENVR CONSULT INC	Virginia	USAF	RDTE/Other Research & Development-Advanced	49
	SUNDSTRAND CORPORATION	California	ARMY	RDTE/Other Research & Development-Advanced	715
	SYSTEMS SUPPORT INC	Virginia	ARMY	RDTE/Other Research & Development-Advanced	112
	TECHNICAL RESEARCH ASSOCIATES	Utah	USAF	RDTE/Other Research & Development-Advanced	50
	TECOLOTE RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Advanced	152

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ13 (CONTINUED)					
	THE ANALYTIC SCIENCE CORP	Florida	USAF	RDTE/Other Research & Development-Advanced	800
	THERMACORE INC	Penn	USAF	RDTE/Other Research & Development-Advanced	200
	TRACOR AEROSPACE INC	California	USAF	RDTE/Other Research & Development-Advanced	460
	ULTRAMET	California	USAF	RDTE/Other Research & Development-Advanced	366
	UNITED TECHNOLOGIES CORP	Conn	ARMY	RDTE/Other Research & Development-Advanced	42
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Advanced	48
	UNIVERSITY OF ARIZONA	Arizona	USAF	RDTE/Other Research & Development-Advanced	374
	UNIVERSITY OF CALIFORNIA	California	NAVY	RDTE/Other Research & Development-Advanced	73
	UNIVERSITY OF CENTRAL FLORIDA	Florida	NAVY	RDTE/Other Research & Development-Advanced	1,788
	UNIVERSITY OF FLORIDA	Florida	USAF	RDTE/Other Research & Development-Advanced	95
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Advanced	100
	UNIVERSITY OF STHERN CLFORNIA	California	USAF	RDTE/Other Research & Development-Advanced	72
	UNIVERSITY OF VIRGINIA	D.C.	NAVY	RDTE/Other Research & Development-Advanced	104
	UNIVERSITY OF WSCONSIN SYSTEM	Wisconsin	USAF	RDTE/Other Research & Development-Advanced	27
	VISIDYNE INC	Mass	USAF	RDTE/Other Research & Development-Advanced	200
	R&D TOTAL				535,290
AZ14	ADVANCED TECHNOLOGY INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	288
	ALLIED SIGNAL INC	Indiana	NAVY	RDTE/Other Research & Development-Engr Dev	216
	AMERICAN RESEARCH CORP VA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	294
	APPLIED TECHNOLOGIES INC	Colorado	ARMY	RDTE/Other Research & Development-Engr Dev	250
	BOEING AEROSPACE & ELECTRONICS	Washington	USAF	RDTE/Other Research & Development-Engr Dev	14,068
	BOOZ ALLEN & HAMILTON INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev	9,651
	C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	139
	COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Engr Dev	2,432

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)				
COMPUTER SOFTWARE ANALYSTS	California	NAVY	RDTE/Other Research & Development-Engr Dev	257
CORPORATION OF MERCER UNIV	Georgia	USAF	RDTE/Other Research & Development-Engr Dev	1,632
CTA INCORPORATED	Ohio	USAF	RDTE/Other Research & Development-Engr Dev	2,959
DRAPER CHARLES STARK LAB INC	Mass	USAF	RDTE/Other Research & Development-Engr Dev	3,672
ELDYNE INC	California	NAVY	RDTE/Other Research & Development-Engr Dev	500
ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	1,103
ENVIRONMENTAL RESEARCH	Michigan	USAF	RDTE/Other Research & Development-Engr Dev	1,296
FEMME COMP INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	44
FOSTER MILLER INC	Mass	ARMY	RDTE/Other Research & Development-Engr Dev	128
GTE GOVERNMENT SYSTEMS CORP	California	ARMY	RDTE/Other Research & Development-Engr Dev	150
HONEYWELL INC	Minnesota	ARMY	RDTE/Other Research & Development-Engr Dev	2,716
HRB SYSTEMS INC	Penn	NAVY	RDTE/Other Research & Development-Engr Dev	175
HUGHES AIRCRAFT COMPANY	Arizona	NAVY	RDTE/Other Research & Development-Engr Dev	35
CONTRACTOR TOTAL	California	NAVY	RDTE/Other Research & Development-Engr Dev	217
				252
HUMAN RSRCES RES ORGANIZATION	Kentucky	ARMY	RDTE/Other Research & Development-Engr Dev	191
INTEGRATED SYSTEMS ANALYSTS	California	NAVY	RDTE/Other Research & Development-Engr Dev	4,947
MAGNAVOX GOVT & INDSTR ELCTR	Indiana	NAVY	RDTE/Other Research & Development-Engr Dev	2,460
MARTIN MARIETTA CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Engr Dev	90
MATERIALS SCIENCES CORP	Penn	NAVY	RDTE/Other Research & Development-Engr Dev	358
MICROTURBO NORTH AMERICA INC	Texas	ARMY	RDTE/Other Research & Development-Engr Dev	800
MITRE CORPORATION	Mass	USAF	RDTE/Other Research & Development-Engr Dev	407,354
OPTRA INC	Mass	NAVY	RDTE/Other Research & Development-Engr Dev	357
ORION INTL TECHNOLOGIES	New Mexico	ARMY	RDTE/Other Research & Development-Engr Dev	68

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R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	R&D DESCRIPTION	
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AZ:4 (CONTINUED)

PHILLIPS CARTNER & CO INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev	\$	43
PHOTO METRIC INC	Mass	NAVY	RDTE/Other Research & Development-Engr Dev		347
PRAGMATICS INC	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		99
RF MICROSYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		595
RUPPRECHT & PATASHNICK CO INC	New York	ARMY	RDTE/Other Research & Development-Engr Dev		233
SCIENCE APPLICATIONS INTL CORP	California	USAF	RDTE/Other Research & Development-Engr Dev		929
SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Engr Dev		300
SCIENCE SERVICES	Ohio	NAVY	RDTE/Other Research & Development-Engr Dev		344
SCIENTIFIC TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Engr Dev		216
SHEARWATER INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		822
SIGMA RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Engr Dev		125
SIMTEC INC	Virginia	USAF	RDTE/Other Research & Development-Engr Dev		153
SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Engr Dev		75
SOUTHERN RESEARCH TECHNOLOGIES	Alabama	USAF	RDTE/Other Research & Development-Engr Dev		177
TACAN CORPORATION	California	ARMY	RDTE/Other Research & Development-Engr Dev		261
TANNER RESEARCH INC	California	NAVY	RDTE/Other Research & Development-Engr Dev		50
THE ANALYTIC SCIENCE CORP	Florida	USAF	RDTE/Other Research & Development-Engr Dev		1,999
TRIDENT INTERNATIONAL INC	Florida	NAVY	RDTE/Other Research & Development-Engr Dev		75
UNITED TECHNOLOGIES CORP	California	NAVY	RDTE/Other Research & Development-Engr Dev		1,900
UNIVERSITY OF DENVER	Colorado	NAVY	RDTE/Other Research & Development-Engr Dev		96
UNIVERSITY OF VIRGINIA	Virginia	ARMY	RDTE/Other Research & Development-Engr Dev		293
VARIAN ASSOCIATES INC	Mass	ARMY	RDTE/Other Research & Development-Engr Dev		1,095
WAGNER DANIEL H ASSOCIATES	Penn	NAVY	RDTE/Other Research & Development-Engr Dev		490
	Virginia	NAVY	RDTE/Other Research & Development-Engr Dev		476

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CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ14 (CONTINUED)				
CONTRACTOR TOTAL				
WARDLAW GRANT DR	AUSTRALIA	ARMY	RDTE/Other Research & Development-Engr Dev	966
WESTINGHOUSE ELECTRIC CORP	Maryland	NAVY	RDTE/Other Research & Development-Engr Dev	32
		USAF	RDTE/Other Research & Development-Engr Dev	226
				53,708
				53,934
				524,006
STATE TOTAL				
R&D TOTAL				
AZ15	ADVANCED DECISION SYSTEMS	ARMY	RDTE/Other Research & Development-Op Sys D	50
	ADVANCED TECHNOLOGY INC	NAVY	RDTE/Other Research & Development-Op Sys D	110
	AGE LIGHT INC	USAF	RDTE/Other Research & Development-Op Sys D	240
	AIRCRAFT GEAR CORPORATION	USAF	RDTE/Other Research & Development-Op Sys D	907
	ASI SYSTEMS INTERNATIONAL	ARMY	RDTE/Other Research & Development-Op Sys D	30
		ARMY	RDTE/Other Research & Development-Op Sys D	123
				153
CONTRACTOR TOTAL				
BDM INTERNATIONAL INC	California	ARMY	RDTE/Other Research & Development-Op Sys D	90
BOLT BERANEK & NEWMAN INC	Mass	ARMY	RDTE/Other Research & Development-Op Sys D	29
C A E INDUSTRIES LTD	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	83
COLEMAN RESEARCH CORPORATION	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	57
COMPATIBLE MICRO SOLUTIONS	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	54
ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Op Sys D	457
ELECTROSPACE SYSTEMS INC	Texas	ARMY	RDTE/Other Research & Development-Op Sys D	400
FRONTIER ENGINEERING INC	Oklahoma	USAF	RDTE/Other Research & Development-Op Sys D	40
HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Op Sys D	3,960
HICKLIN ENGINEERING INC	Iowa	ARMY	RDTE/Other Research & Development-Op Sys D	1,312
I I T RESEARCH INSTITUTE	Illinois	USAF	RDTE/Other Research & Development-Op Sys D	45,699

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ15 (CONTINUED)					
	CONTRACTOR TOTAL				
	KETRON INC	New York	USAF	RDTE/Other Research & Development-Op Sys D	\$ 75
	L N K CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	45,774
	LOCKHEED ELECTRONICS CO	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	915
	LOGISTICS MGT INSTITUTE	New Mexico	ARMY	RDTE/Other Research & Development-Op Sys D	50
	MANDEX INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	10,922
	MICRION CORPORATION	Arizona	ARMY	RDTE/Other Research & Development-Op Sys D	19,684
	OFFICE OF THE FUTURE INC	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	1,767
	OKLAHOMA STATE UNIVERSITY	New Jersey	ARMY	RDTE/Other Research & Development-Op Sys D	5,091
	OPTIMETRICS INC	Oklahoma	USAF	RDTE/Other Research & Development-Op Sys D	90
	PAR TECHNOLOGY CORPORATION	Michigan	ARMY	RDTE/Other Research & Development-Op Sys D	90
	PARA FLITE INC	D.C.	ARMY	RDTE/Other Research & Development-Op Sys D	414
	PERI	New Jersey	ARMY	RDTE/Other Research & Development-Op Sys D	395
	PRECISION MACHINING INC	New Jersey	USAF	RDTE/Other Research & Development-Op Sys D	130
	PRESEARCH INCORPORATED	New Jersey	NAVY	RDTE/Other Research & Development-Op Sys D	250
	RAYTHEON COMPANY	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	47
	RESOURCE CONSULTANTS INC	Virginia	NAVY	RDTE/Other Research & Development-Op Sys D	781
	S T SYSTEMS CORPORATION	Mass	ARMY	RDTE/Other Research & Development-Op Sys D	3,800
	SCIENCE RESEARCH LABORATORY	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	200
	SURVIVE ENGINEERING CO INC	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	4,000
	SYSTEM PLANNING CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Op Sys D	50
					96
					50
					1,010
					166
	STATE TOTAL				

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PRIME CONTRACTS OVER \$25,000 FOR RESEARCH AND DEVELOPMENT

FISCAL YEAR 1990

(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ15 (CONTINUED)					
	TEXAS INSTRUMENTS INCORPORATED	Texas	NAVY	RDTE/Other Research & Development-Op Sys D	250
	TIMOTHY D FENNEL & CO	D.C.	ARMY	RDTE/Other Research & Development-Op Sys D	192
	UNITED TECHNOLOGIES OPT SYSTEMS	Florida	NAVY	RDTE/Other Research & Development-Op Sys D	82
	UNITED TECHNOLOGIES CORP	Conn	NAVY	RDTE/Other Research & Development-Op Sys D	700
		Florida	ARMY	RDTE/Other Research & Development-Op Sys D	249
	CONTRACTOR TOTAL				949
	UNIVERSITY OF IOWA THE	Iowa	ARMY	RDTE/Other Research & Development-Op Sys D	42
	UNIVERSITY OF MARYLAND	Maryland	ARMY	RDTE/Other Research & Development-Op Sys D	60
	UNIVERSITY OF STERN CLFORNIA	California	ARMY	RDTE/Other Research & Development-Op Sys D	2,473
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Op Sys D	62
	UNIVERSITY OF VERMONT	Vermont	ARMY	RDTE/Other Research & Development-Op Sys D	152
	VEXCEL CORPORATION	Colorado	ARMY	RDTE/Other Research & Development-Op Sys D	50
	WOODS HOLE OCNRPIC INSTUTE	Mass	NAVY	RDTE/Other Research & Development-Op Sys D	386
	R&D TOTAL				104,412
	AZ16 A P A OPTICS INC	Minnesota	ARMY	RDTE/Other Research & Development-Mgmt & S	240
	ADCOM SYSTEMS INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	48
	ADVANCE CERAMIC RESEARCH	Arizona	NAVY	RDTE/Other Research & Development-Mgmt & S	500
	ADVANCED SYSTEMS TECHNOLOGIES	Colorado	NAVY	RDTE/Other Research & Development-Mgmt & S	59
		Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	54
	CONTRACTOR TOTAL				113
	AERCON CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	317
	AEROCHEM RESEARCH LABORATORIES	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S	196
	AERODYNE RESEARCH INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	60
	ALLIED SIGNAL AEROSPACE CO	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	150

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	\$
AZ16 (CONTINUED)					
	AMERICAN SYSTEMS ENGRG CORP	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	33
	ANALATOM INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	ANALYSIS & SIMULATION INC	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	249
	ANAMET LABORATORIES INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	AURORA OPTICS INC	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	112
	BERNIER & ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	113
	BIO TECHNICAL RESOURCES INC	Wisconsin	USAF	RDTE/Other Research & Development-Mgmt & S	49
	BIOMAGNETIC TECHNOLOGIES INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	132
	BRAIDTECH INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	100
		Rhode Islnd	USAF	RDTE/Other Research & Development-Mgmt & S	250
	CONTRACTOR TOTAL				350
	C & L ASSOCIATES INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	72
	CALSPAN CORPORATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	26
		Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	61,116
	CONTRACTOR TOTAL				61,142
	CARLOW ASSOCIATES INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	300
	CARNEGIE GROUP INC	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	45
	CIVILIZED SOFTWARE INC	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	42
	COLEMAN RESEARCH CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	223
	COLUMBIA RESEARCH INSTR CORP	Missouri	ARMY	RDTE/Other Research & Development-Mgmt & S	50
		New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	70
	CONTRACTOR TOTAL				120
	COMPUTER SCIENCES CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	484
	COOPERS & LYBRAND	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	514

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	CRYSTAL SYSTEMS INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 94
	DEACON RESEARCH	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	DECISION SCIENCE APPLICATIONS	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	159
	DEFENSE GROUP INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	50
	DELEX SYSTEMS INCORPORATED	California	NAVY	RDTE/Other Research & Development-Mgmt & S	644
	DELFIN SYSTEMS	California	ARMY	RDTE/Other Research & Development-Mgmt & S	162
	DYNACORP APPLIED TECHNOLOGY	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S	1,987
	EAI CORPORATION	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	172
	ECONOMICS TECHNOLOGY ASSOC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	37
	ELECTRIC OPTIC CONSULTING SVCS	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	ELECTROIMPACT INC	Washington	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	ELECTRONIC DECISIONS INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S	223
	ELECTROSPACE SYSTEMS INC	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	381
	EMCORE CORP	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	382
	ENVIRONMENTAL RESEARCH	Michigan	NAVY	RDTE/Other Research & Development-Mgmt & S	316
	ENVIRONMENTAL SYSTEMS RES INST	California	ARMY	RDTE/Other Research & Development-Mgmt & S	1,978
	ESSEX CORPORATION	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	149
	EXCEL TECHNOLOGY INC	New York	USAF	RDTE/Other Research & Development-Mgmt & S	50
	EXFLUOR RESEARCH CORPORATION	Texas	NAVY USAF	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	50 250
	STATE TOTAL				300
	EYRING RESEARCH INSTITUTE INC	Utah	ARMY	RDTE/Other Research & Development-Mgmt & S	311
	FLOUROCHEM INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	55
	FLUORO CHEM CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S	58

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	FOSTER MILLER INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 660
	G M S ENGINEERING CORPORATION	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S	435
	GENERAL PHYSICS CORPORATION	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	216
	GEOMET INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	402
	GEORGIA TECH RESEARCH CORP	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	180
	GINER INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	122
	GRAHAM RESEARCH	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	50
	HADLOCK FRANK & ASSOCIATES	Tennessee	NAVY	RDTE/Other Research & Development-Mgmt & S	274
	HAMPTON UNIVERSITY	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	101
	HARRIS CORPORATION	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	50-
	HILTON SYSTEMS INC	New Jersey	ARMY	RDTE/Other Research & Development-Mgmt & S	1,848
	HITTMAN MATERIALS	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	298
	HOLOMETRIX INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	49
	HONEYWELL FEDERAL SYSTEMS	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	200
	HONEYWELL INC	Minnesota	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	HUGHES AIRCRAFT COMPANY	California	USAF	RDTE/Other Research & Development-Mgmt & S	250
	HUGHES ASSOCIATES INC	Maryland	USAF	RDTE/Other Research & Development-Mgmt & S	91
	HUMAN MACHINE INTERFACES INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	49
	I I T RESEARCH INSTITUTE	Illinois	ARMY	RDTE/Other Research & Development-Mgmt & S	1,380
	I MATH ASSOCIATES INC	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	135
	INTEGRITY SYSTEMS INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	59
	INTEGRATED CHMICAL SENSORS CORP	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	89
	INTERNATIONAL COMPUTERS TELCOM	Maryland	NAVY	RDTE/Other Research & Development-Mgmt & S	1,105
	ISOTHERMAL SYSTEMS RESEARCH	Kentucky	USAF	RDTE/Other Research & Development-Mgmt & S	268

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	K S E INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 250
	KARTA TECHNOLOGY INC	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	110
	KTAADN INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	49
	L & W RESEARCH INC	Conn	USAF	RDTE/Other Research & Development-Mgmt & S	50
	LASER SCIENCE INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	45
	LITECOM INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	LITTON SYSTEMS INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	1,712
	LOGISTICS MGT INSTITUTE	D.C.	OCE	RDTE/Other Research & Development-Mgmt & S	627
	LUBRICATING SPC COMPANY	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	M P D INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	82
	M TECHNOLOGIES	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	239
	MANAGEMENT & PERSONNEL SYSTEM	California	ARMY	RDTE/Other Research & Development-Mgmt & S	63
	MATERIALS ANALYSIS INC	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	242
	MEDICAL LASER RESEARCH & DEVEL	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	67
	MEMBRANE TECHNOLOGY & RESEARCH	California	ARMY	RDTE/Other Research & Development-Mgmt & S	194
	METROLASER	California	USAF	RDTE/Other Research & Development-Mgmt & S	240
	MGMT RESEARCH INSTITUTE INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	MIDWEST RESEARCH INSTITUTE	Missouri	ARMY	RDTE/Other Research & Development-Mgmt & S	194
	MIKROS SYSTEMS CORPORATION	New Jersey	NAVY	RDTE/Other Research & Development-Mgmt & S	239
	MINE SAFETY APPLS COMPANY	Penn	ARMY	RDTE/Other Research & Development-Mgmt & S	79
	MO SCI CORP	Missouri	NAVY	RDTE/Other Research & Development-Mgmt & S	250
	MYSTECH ASSOCIATES INC	Conn	USAF	RDTE/Other Research & Development-Mgmt & S	49
	NEW MEXICO STATE UNIVERSITY	New Mexico	ARMY	RDTE/Other Research & Development-Mgmt & S	801
	ODETICS INC	California	NAVY	RDTE/Other Research & Development-Mgmt & S	49

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(AMOUNTS IN THOUSANDS)

R&D	CONTRACTOR NAME	ST/CONTRY	DEPT	-R&D DESCRIPTION-	
AZ16 (CONTINUED)					
	ONTAR CORPORATION	Mass	ARMY NAVY	RDTE/Other Research & Development-Mgmt & S RDTE/Other Research & Development-Mgmt & S	\$ 100 171
		STATE TOTAL			271
	OPTECH LAB	California	NAVY	RDTE/Other Research & Development-Mgmt & S	49
	OPTIMA SYSTEMS INC	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	63
	OPTIVISION INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	75
	ORINCON CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	1,243
	ORION RESEARCH INCORPORATED	Florida	ARMY	RDTE/Other Research & Development-Mgmt & S	188
		N Carolina	ARMY	RDTE/Other Research & Development-Mgmt & S	432
		Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	612
		PANAMA	ARMY	RDTE/Other Research & Development-Mgmt & S	1,032
		CONTRACTOR TOTAL			2,264
	PHYSICAL OPTICS CORPORATION	California	NAVY	RDTE/Other Research & Development-Mgmt & S	98
	PHYSICAL RESEARCH INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	100
	PHYSICON INC	Alabama	NAVY	RDTE/Other Research & Development-Mgmt & S	49
	POLYLITHICS INC	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	Q DOT INC	Colorado	ARMY	RDTE/Other Research & Development-Mgmt & S	425
	QUANTUM EPITAXIAL DESIGNS INC	Penn	USAF	RDTE/Other Research & Development-Mgmt & S	51
	R G B ASSOCIATES INC	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	RACAL RECORDERS INC	Virginia	USAF	RDTE/Other Research & Development-Mgmt & S	60
	REAL TIME INTELLIGENT SYSTEMS	Mass	USAF	RDTE/Other Research & Development-Mgmt & S	50
	RESEARCH FOUNDATION	New York	ARMY	RDTE/Other Research & Development-Mgmt & S	191
	RETICULAR SYSTEMS INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	50
	ROCHESTER PHOTONICS CORP	New York	USAF	RDTE/Other Research & Development-Mgmt & S	50

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	RUTSTEIN ALEX & ASSOCIATES	Ohio	ARMY	RDTE/Other Research & Development-Mgmt & S	\$ 100
	SCIENCE APPLICATIONS INTL CORP	Virginia	ARMY	RDTE/Other Research & Development-Mgmt & S	7,517
	SCIENTIFIC RESEARCH ASSOC INC	Conn	ARMY	RDTE/Other Research & Development-Mgmt & S	173
	SIEMENS CORPORATION	New Jersey	USAF	RDTE/Other Research & Development-Mgmt & S	201
	SIMULA INC	Arizona	ARMY	RDTE/Other Research & Development-Mgmt & S	48
			USAF	RDTE/Other Research & Development-Mgmt & S	200
			STATE TOTAL		249
	SOCIOMETRICS INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	117
	SOHAR INCORPORATED	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	SONALYSTS INC	Conn	NAVY	RDTE/Other Research & Development-Mgmt & S	173
	SOUTHERN RESEARCH INSTITUTE	Alabama	ARMY	RDTE/Other Research & Development-Mgmt & S	240
	SPARTA INC	California	ARMY	RDTE/Other Research & Development-Mgmt & S	62
			NAVY	RDTE/Other Research & Development-Mgmt & S	139
			STATE TOTAL		201
	SPECTRAL SCIENCES INC	Mass	NAVY	RDTE/Other Research & Development-Mgmt & S	48
	SRI INTERNATIONAL	California	ARMY	RDTE/Other Research & Development-Mgmt & S	150
	STANDARD TECHNOLOGY INC	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	96
	SUGEROSE INC	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	35
	SVERDRUP TECHNOLOGY INC	Tennessee	USAF	RDTE/Other Research & Development-Mgmt & S	52,510
	SYSTEMS & PROCESSES ENGRG CORP	Texas	NAVY	RDTE/Other Research & Development-Mgmt & S	400
	SYSTEMS PLANNING & ANALYSIS	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	200
	TAU CORPORATION	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	TECHNICAL & MGT SVCS CORP	Maryland	ARMY	RDTE/Other Research & Development-Mgmt & S	574
	TEXAS TECH UNIVERSITY	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	191
	TRIDENT SYSTEMS INC	Virginia	NAVY	RDTE/Other Research & Development-Mgmt & S	48

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R&D	CONTRACTOR NAME	ST/CNTRY	DEPT	R&D DESCRIPTION	
AZ16 (CONTINUED)					
	TYBRIN CORPORATION	Florida	USAF	RDTE/Other Research & Development-Mgmt & S	\$ 602
	UNITED TECHNOLOGIES CORP	California	USAF	RDTE/Other Research & Development-Mgmt & S	50
	UNIVERSAL ENERGY SYSTEMS INC	Ohio	USAF	RDTE/Other Research & Development-Mgmt & S	49
	UNIVERSITY OF TEXAS SYSTEM	Texas	ARMY	RDTE/Other Research & Development-Mgmt & S	65
	UTAH BIORESEARCH INC	Utah	NAVY	RDTE/Other Research & Development-Mgmt & S	55
			USAF	RDTE/Other Research & Development-Mgmt & S	157
		STATE TOTAL			212
	VISTA TECHNOLOGIES INC	Illinois	USAF	RDTE/Other Research & Development-Mgmt & S	48
	WILSON GREATBATCH LTD	New York	NAVY	RDTE/Other Research & Development-Mgmt & S	39
	WORCESTER PLYTECHNIC INSTITUTE	Mass	ARMY	RDTE/Other Research & Development-Mgmt & S	82
	XINOTECH RESEARCH INC	Minnesota	NAVY	RDTE/Other Research & Development-Mgmt & S	100
	R&D TOTAL				157,160
	GRAND TOTAL FOR R&D				\$ 22,318,911

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